

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Complete if Known Application Number: 10/668,672 Filing Date: September 23, 2003 First Named Inventor: Samuel I. STUPP et al. Art Unit: 1645 Examiner Name: Unknown Attorney Docket Number: NANO 105 US2 (NU 22074)	
Sheet	1	of	21	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	4554101	11-19-1985	Hopp	
	A2	4930077	05-29-1990	Fan	
	A3	5130123	07-14-1992	Reynolds et al.	
	A4	5206111	05-04-1993	Decher et al.	
	A5	5670463	09-23-1997	Zhang et al.	
	A6	5733666	03-31-1998	Peterson et al.	
	A7	5843780	12-01-1998	Thomson	
	A8	5955343	09-21-1999	Holmes et al.	
	A9	5993541	11-30-1999	Litvin et al.	
	A10	6051272	04-18-2000	Stupp et al.	
	A11	6085206	07-04-2000	Domini et al.	
	A12	6086663	06-01-2000	Fields et al.	
	A13	6161909 B1	01-30-2001	Burstein et al.	
	A14	6201065 B1	03-13-2001	Pathak et al.	
	A15	6269368 B1	07-31-2001	Diamond	
	A16	6391297 B1	05-21-2002	Halvorsen	
	A17	6473730 B1	10-29-2002	McKeown et al.	
	A18	6548630 B1	04-15-2003	Zhang et al.	
	A19	6562619 B1	05-13-2003	Gearhart et al.	
	A20	6600461 B1	10-05-2004	Holmes et al.	
	A21	6690854 B1	05-10-2005	Stupp et al.	
	A22	20020046018 A1	04-18-2002	Marcu et al.	
	A23	20020142277 A1	10-03-2002	Burstein et al.	
	A24	20030059906 A1	03-27-2003	Hubbell et al.	
	A25	20030176335 A1	09-18-2003	Zhang et al.	
	A26	20040001893 A1	01-01-2004	Stupp et al.	
	A27	20040016961 A1	01-29-2004	Stupp et al.	
	A28	20040022718 A1	02-05-2004	Stupp et al.	
	A29	20040256726 A1	12-23-2004	Stupp et al.	
	A30	20050208589 A1	09-22-2005	Stupp et al.	
	A31	20050209145 A1	09-22-2005	Stupp et al.	
	A32	20050272862 A1	12-08-2005	Stupp et al.	
	A33	20060149036 A1	07-06-2006	Stupp et al.	
	A34	11/337,316	01-23-2008	Stupp et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² Number ³ Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	B1	JP 03096086 A	04-24-1991	Shimizu et al.	
	B2	WO 97/14713 A1	04-24-1997	Perrier et al.	
	B3	WO 97/20639 A1	08-12-1997	Amebrant et al.	
	B4	WO 98/07752 A1	02-28-1998	Fields et al.	
	B5	WO 00/44808 A1	08-03-2000	Elbert et al.	
	B6	WO 00/52145 A2	09-08-2000	Robt et al.	

Examiner Signature	Date Considered
--------------------	-----------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/USPTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/668,672	
			Filing Date	September 23, 2003	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1645	
			Examiner Name	Unknown	
Sheet	2	of	21	Attorney Docket Number	NANO 105 US2 (NU 22074)

B7	WO 01/00650 A1	01-04-2001	Chapman et al.		
B8	WO 03/054146 A2	07-03-2003	Stupp et al.		
B9	WO 03/084980 A2	10-16-2003	Stupp et al.		
B10	WO 03/090255 A2	10-30-2003	Stupp et al.		
B11	WO 2004/003561 A1	01-08-2004	Stupp et al.		
B12	WO 2004/018628 A2	03-04-2004	Stupp et al.		
B13	WO 2004/024778 A2	03-25-2004	Stupp et al.		
B14	WO 2004/046167 A2	06-03-2004	Stupp et al.		
B15	WO 2004/072104 A2	08-26-2004	Stupp et al.		
B16	WO 2004/106359 A2	12-09-2004	Stupp et al.		
B17	WO 2005/003292 A2	01-13-2005	Stupp et al.		
B18	WO 2005/056039 A1	06-23-2005	Stupp et al.		
B19	WO 2006/056614 A2	09-14-2006	Stupp et al.		

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *CITE NO.: Those application(s) which are marked with an asterisk (*) listed to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(b)) because that application was filed after June 30, 2002 or is available in the IP/IT. *Applicant's unique citation designation number (optional). *See Kind Code of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. *Enter Office that issued the document, by the two-letter code (WFO Standard 8T.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard 8T 16 if possible. *Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, city and/or country where published.			T ²
	C1	Brown, Walter E. December 15, 1962. "Octacalcium Phosphate and Hydroxyapatite." <i>Nature</i> . Vol. 195, pp. 1048-1050.			
	C2	Liang, W. Y. and A. D. Yoffe. January 8, 1968. "Transmission Spectra of ZnO Single Crystals." <i>Physical Review Letters</i> . Vol. 20, No. 2, pp. 59-62.			
	C3	Greenfield, Norma and Gerald D. Fasman. October 1969. "Computed Circular Dichroism Spectra for the Evaluation of Protein Conformation." <i>Biochemistry</i> . Vol. 8, No. 10, pp. 4108-4116.			
	C4	Honke, Klaus and Volkmar Braun. 1973. "Covalent Bonding of Lipid to Protein: Diglyceride and Amide-Linked Fatty Acid at the N-Terminal End of the Mercuric-Lipoprotein of the <i>Escherichia coli</i> Outer Membrane." <i>Eur J Biochem</i> . Vol. 34, No. 2, pp. 284-296.			
	C5	Balcerksi, James S., E. S. Pysh, G. M. Bonora, and C. Tomiolo. June 9, 1976. "Vacuum Ultraviolet Circular Dichroism of β -Forming Alkyl Oligopeptides." <i>Journal of the American Chemical Society</i> . Vol. 98, No. 12, pp. 3470-3473.			
	C6	Jacobson, Bruce S. and Daniel Branton. January 21, 1977. "Plasma Membrane: Rapid Isolation and Exposure of the Cytoplasmic Surface by Use of Positively Charged Beads." <i>Science</i> . Vol. 195, No. 4275, pp. 302-304.			
	C7	Biesecker, G., J. Iwan Harris, J. C. Thierry, J. E. Walker, and A. J. Wonacott. March 24, 1977. <i>Nature</i> . Vol. 266, pp. 328-333.			
	C8	Kelly, Margaret M., E. S. Pysh, G. M. Bonora, and C. Tomiolo. May 11, 1977. "Vacuum Ultraviolet Circular Dichroism of Protected Homooligomers Derived from L-Leucine." <i>Journal of the American Chemical Society</i> . Vol. 99, No. 10, pp. 3264-3266.			
	C9	Blumenthal, N. C., A. S. Posner, L. D. Silverman, and L. C. Rosenberg. 1979. "Effect of Proteoglycans on <i>In Vitro</i> Hydroxyapatite Formation." <i>Calcified Tissue International</i> . Vol. 27, No. 1, pp. 75-82.			
	C10	Richardson, P. M., U. M. McGinness, and A. J. Aguayo. March 20, 1980. "Axons from CNS Neurons Regenerate into PNS Grafts." <i>Nature</i> . Vol. 284, pp. 264-265.			
	C11	Linn, Franklin and Anthony M. Sun. November 21, 1980. "Microencapsulated Islets as Bioartificial			

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/SPPTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/668,672	
			Filing Date	September 23, 2003	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1645	
			Examiner Name	Unknown	
Sheet	3	of	21	Attorney Docket Number	NANO 105 US2 (NU 22074)

	Endocrine Pancreas." <i>Science</i> . Vol. 210, No. 4472, pp. 908-910.	
C12	Jain, Rakesh K., Chhitar M. Gupta, and Nitya Anand. 1981. "Synthesis of Peptidylglycophospholipids, Novel Derivatives of Muramyl-Dipeptide." <i>Tetrahedron Letters</i> . Vol. 22, No. 24, pp. 2317-2320.	
C13	Sarin, Virender K., Stephen B. H. Kent, James P. Tam, and R. B. Merrifield. 1981. "Quantitative Monitoring of Solid-Phase Peptide Synthesis by the Ninhydrin Reaction." <i>Analytical Biochemistry</i> . Vol. 117, pp. 147-157.	
C14	Yamasaki, I. V., J. F. Burke, D. P. Orgill, E. M. Skrabut. January 8, 1982. "Wound Tissue Can Utilize a Polymeric Template to Synthesize a Functional Extension of Skin." <i>Science</i> . Vol. 215, No. 4529, pp. 174-176.	
C15	Montesano, R., L. Orci, and P. Vassalli. November 1983. "In Vitro Rapid Organization of Endothelial Cells into Capillary-like Networks is Promoted by Collagen Matrices." <i>The Journal of Cell Biology</i> . Vol. 97, pp. 1648-1652.	
C16	Pierschbacher, Michael D. and Erkki Ruoslahti. May 3, 1984. "Cell Attachment Activity of Fibronectin Can Be Duplicated by Small Synthetic Fragments of the Molecule." <i>Nature</i> . Vol. 309, pp. 30-33.	
C17	Landis, W. J. and J. R. Martin. April-June 1984. "X-Ray Photoelectron Spectroscopy Applied to Gold-Decorated Mineral Standards of Biological Interest." <i>J. Vac. Sci. Technol.</i> Vol. A 2, No. 2, pp. 1108-1111.	
C18	Thompson, Nancy L., Adrienne A. Brian, and Harden M. McConnell. 1984. "Covalent Linkage of a Synthetic Peptide to a Fluorescent Phospholipid and Its Incorporation into Supported Phospholipid Monolayers." <i>Biochimica et Biophysica Acta</i> . Vol. 772, pp. 10-19.	
C19	Yamada, Kimho, Hirotsuka Ihara, Toshio Ide, Takanori Fukumoto, and Chuichi Hirayama. 1984. "Formation of Helical Super Structure from Single-Walled Bilayers by Amphiphiles with Oligo-L-Glutamic Acid-Head Group." <i>Chemistry Letters</i> . No. 10, pp. 1713-1716.	
C20	Addadi, L. and S. Weiner. June 15, 1985. "Interactions Between Acidic Proteins and Crystals: Stereochemical Requirements in Biomineralization." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 82, No. 12, pp. 4110-4114.	
C21	"Public Health Service Policy on Humane Care and Use of Laboratory Animals." September 1986. Office for Protection from Research Risks (OPRR), National Institutes of Health.	
C22	Weiner, Stephen and Wolfie Traub. October 1986. "Organization of Hydroxyapatite Crystals Within Collagen Fibrils." <i>FEBS Letters</i> . Vol. 206, No. 2, pp. 262-266.	
C23	Manz, Stephen, John P. Hamington, and J. P. Williams. December 11, 1986. "Phospholipid Vesicles as a Model System for Biomineralization." <i>Nature</i> . Vol. 324, pp. 565-567.	
C24	Kriem, Samuel and Jagdeesh Bandekar. 1986. "Vibrational Spectroscopy and Conformation of Peptides, Polypeptides, and Proteins." <i>Advances in Protein Chemistry</i> . Vol. 38, pp. 181-364.	
C25	de Groot, K., R. Geesink, C. P. A. T. Klein, and P. Sereksian. December 1987. "Plasma Sprayed Coatings of Hydroxylapatite." <i>Journal of Biomedical Materials Research</i> . Vol. 21, No. 12, pp. 1375-1381.	
C26	Brestahan, J. C., M. S. Beattie, F. D. Todd III, and D. H. Noyes. 1987. "A Behavioral and Anatomical Analysis of Spinal Cord Injury Produced by a Feedback-Controlled Impaction Device." <i>Experimental Neurology</i> . Vol. 95, pp. 548-570.	
C27	Moscatelli, David. 1987. "High and Low Affinity Binding Sites for Basic Fibroblast Growth Factor on Cultured Cells: Absence of a Role for Low Affinity Binding in the Stimulation of Plasminogen Activator Production by Bovine Capillary Endothelial Cells." <i>Journal of Cellular Physiology</i> . Vol. 131, pp. 123-130.	
C28	Lambert, Joseph B., Herbert F. Shurvell, David A. Lightner, and R. Graham Cooks. 1987. "Group Frequencies: Infrared and Raman." <i>Introduction to Organic Spectroscopy</i> . New York: Macmillan Publishing Company. Pp. 169-182.	
C29	Cook, Stephen D., Kevin A. Thomas, John F. Kay, and Michael Jarcho. July 1988. "Hydroxyapatite-Coated Titanium for Orthopedic Implant Applications." <i>Clinical Orthopaedics and Related Research</i> . No. 232, pp. 225-243.	

Examiner Signature	Date Considered
--------------------	-----------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/668,672	
			Filing Date	September 23, 2003	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1645	
			Examiner Name	Unknown	
Sheet	4	of	21	Attorney Docket Number	NANO 105 US2 (NU 22074)

C30	Saksela, Olli, David Moscatelli, Andreas Sommer, and Daniel B. Rifkin. August 1988. "Endothelial Cell-Derived Heparan Sulfate Binds Basic Fibroblast Growth Factor and Protects It from Proteolytic Degradation." <i>The Journal of Cell Biology</i> . Vol. 107, pp. 743-751.
C31	Cardin, Alan D. and H. J. R. Weintraub. January/February 1989. "Molecular Modeling of Protein-Glycosaminoglycan Interactions." <i>Arteriosclerosis</i> . Vol. 9, No. 1, pp. 21-32.
C32	Onishi, H., M. Yamamoto, H. Ishimaru, E. Tsuji, S. Kusakata, M. Aono, and Y. Ukon. March 1989. "The Effect of Hydroxyapatite Coating on Bone Growth into Porous Titanium Alloy Implants." <i>The Journal of Bone and Joint Surgery</i> . Vol. 71-B, No. 2, pp. 213-216.
C33	Friedmann, Theodore. June 16, 1989. "Progress Toward Human Gene Therapy." <i>Science</i> . Vol. 244, No. 4910, pp. 1275-1281.
C34	Trumb, Wolfe, Talmon Arad, and Stephen Weiner. December 15, 1989. "Three-Dimensional Ordered Distribution of Crystals in Turkey Tendon Collagen Fibers." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 86, No. 24, pp. 9822-9826.
C35	Knoet, Reinhard, Arnold Trzeciak, Willi Baumwirth, and Dieter Gillesen. 1989. "New Coupling Reagents in Peptide Chemistry." <i>Tetrahedron Letters</i> . Vol. 30, No. 15, pp. 1927-1930.
C36	Sambrook, Joseph, Edward F. Fritsch, and Thomas Maniatis. 1989. "Genes Encoding Selectable Markers." <i>Molecular Cloning: A Laboratory Manual</i> . 2nd ed. New York: Cold Spring Harbor Laboratory Press. Pp. 16.9-16.15.
C37	Veis, A. 1989. "Biochemical Studies of Vertebrate Tooth Mineralization." <i>Biomimeticization</i> . S. Manu, J. Webb, and R. J. P. Williams, editors. Weinheim, Federal Republic of Germany: VCH Verlagsgesellschaft and New York: VCH Publishers. Pp. 189-222.
C38	Schnell, Lisa and Martin E. Schwab. January 18, 1990. "Axonal Regeneration in the Rat Spinal Cord Produced by an Antibody Against Myelin-Associated Neurite Growth Inhibitors." <i>Nature</i> . Vol. 343, pp. 269-272.
C39	Ahn, Sang Tae and Thomas A. Mustoe. January 1990. "Effects of Ischemia on Ulcer Wound Healing: A New Model in the Rabbit Ear." <i>Annals of Plastic Surgery</i> . Vol. 24, No. 1, pp. 17-23.
C40	Van de Pol, Frans C. M. December 1990. "Thin-Film ZnO—Properties and Applications." <i>Ceramic Bulletin</i> . Vol. 69, No. 12, pp. 1959-1965.
C41	Adadi, L., A. Berman, J. Moradian-Oldak, and S. Weiner. December 28, 1990. "Tuning of Crystal Nucleation and Growth by Proteins: Molecular Interactions at Solid-Liquid Interfaces in Biomimeticization." <i>Croatica Chemica Acta</i> . Vol. 63, No. 3, pp. 539-544.
C42	Sukencik, Chaim N., Natarajan Balaschander, Lloyd A. Culp, Kristine Lewandowska, and Katherine Merritt. 1990. "Modulation of Cell Adhesion by Modification of Titanium Surfaces with Covalently Attached Self-Assembled Monolayers." <i>Journal of Biomedical Materials Research</i> . Vol. 24, pp. 1307-1323.
C43	Fields, C. G., D. H. Lloyd, R. L. Macdonald, K. M. Otteson, and R. L. Noble. March/April 1991. "HBTU Activation for Automated Fmoc Solid-Phase Peptide Synthesis." <i>Peptide Research</i> . Vol. 4, No. 2, pp. 95-101.
C44	Murata, Masayuki, Satoshi Kagawa, Sho Takahashi, and Shun-ichi Ohnishi. August 5, 1991. "Membrane Fusion Induced by Mutual Interaction of the Two Charge-Reversed Amphiphilic Peptides at Neutral pH." <i>The Journal of Biological Chemistry</i> . Vol. 266, No. 16, pp. 10353-10358.
C45	Harris, Robin, Editor. 1991. <i>Electron Microscopy in Biology: A Practical Approach</i> . New York: Oxford University Press.
C46	Jackson, David Y., David S. King, Jean Chmielewski, Samir Singh, and Peter G. Schultz. 1991. "General Approach to the Synthesis of Short α -Helical Peptides." <i>Journal of the American Chemical Society</i> . Vol. 113, pp. 9391-9392.
C47	Polverini, Peter J., Noel P. Boucek, and Farzan Rastinejad. 1991. "Assay and Purification of Naturally Occurring Inhibitor of Angiogenesis." <i>Methods in Enzymology</i> . Vol. 198, pp. 440-450.
C48	Weiner, Stephen and Wolfe Trumb. February 1992. "Bone Structure: From Angstroms to Microns." <i>The FASEB Journal</i> . Vol. 6, pp. 879-885.
C49	Adadi, Lisa and Stephen Weiner. 1992. "Control and Design Principles in Biological Mineralization."

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/PTO			Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/668,672
			Filing Date	September 23, 2003
			First Named Inventor	Samuel I. STUPP et al.
			Art Unit	1645
			Examiner Name	Unknown
			Attorney Docket Number	NANO 105 US2 (NU 22074)
Sheet	5	of	21	

	<i>Angew. Chem. Int. Ed. Engl.</i> Vol. 31, pp. 153-169.	
C50	Beresford, J. N., J. H. Bennett, C. Devlin, P. S. Leboy, and M. E. Owen. 1992. "Evidence for an Inverse Relationship Between the Differentiation of Adipocytic and Osteogenic Cells in Rat Marrow Stromal Cell Cultures." <i>Journal of Cell Science</i> . Vol. 102, pp. 341-351.	
C51	Cook, Stephen D., Kevin A. Thomas, Jeanette E. Dalton, Todd K. Volkman, Thomas S. Whitelcloud III, and John F. Kay. 1992. "Hydroxylapatite Coating of Porous Implants Improves Bone Ingrowth and Interface Attachment Strength." <i>Journal of Biomedical Materials Research</i> . Vol. 26, pp. 989-1001.	
C52	Gentile, Robert L., G. Marc Loudon, Lisa A. Paige, and David Lloyd. 1992. "A General Method for Preparation of Peptides Biotinylated at the Carboxy Terminus." <i>Analytical Biochemistry</i> . Vol. 202, pp. 68-70.	
C53	Ghadiri, M. Reza, Christopher Soares, and Chong Choi. 1992. "Design of an Artificial Four-Helix Bundle Metalloprotein via a Novel Ruthenium(II)-Assisted Self-Assembly Process." <i>Journal of the American Chemical Society</i> . Vol. 114, No. 10, pp. 4000-4002.	
C54	Kunitake, Toyoki. 1992. "Synthetic Bilayer Membranes: Molecular Design, Self-Organization, and Application." <i>Angew. Chem. Int. Ed. Engl.</i> Vol. 31, pp. 709-726.	
C55	Stupp, Samuel I. and Glenn W. Ciegler. 1992. "Organosilicates: Materials for Artificial Bone. I. Synthesis and Microstructure." <i>Journal of Biomedical Materials Research</i> . Vol. 26, pp. 169-183.	
C56	Surewicz, Witold K., Henry H. Mantsch, and Dennis Chapman. January 19, 1993. "Determination of Protein Secondary Structure by Fourier Transform Infrared Spectroscopy: A Critical Assessment." <i>Biochemistry</i> . Vol. 32, No. 2, pp. 389-394.	
C57	Zhang, Shuguang, Todd Holmes, Curtis Lockshin, and Alexander Rich. April 15, 1993. "Spontaneous Assembly of a Self-Complementary Oligopeptide to Form a Stable Macroscopic Membrane." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 90, No. 8, pp. 3334-3338.	
C58	Langer, Robert and Joseph P. Vacanti. May 14, 1993. "Tissue Engineering." <i>Science</i> . Vol. 260, No. 5110, pp. 920-926.	
C59	Mulligan, Richard C. May 14, 1993. "The Basic Science of Gene Therapy." <i>Science</i> . Vol. 260, No. 5110, pp. 926-932.	
C60	Massas, R., S. Pitaru, and M. M. Weinreb. June 1993. "The Effects of Titanium and Hydroxyapatite on Osteoblastic Expression and Proliferation in Rat Parietal Bone Cultures." <i>Journal of Dental Research</i> . Vol. 72, No. 6, pp. 1005-1008.	
C61	Archibald, Douglas D. and Stephen Mann. July 29, 1993. "Template Mineralization of Self-Assembled Anisotropic Lipid Microstructures." <i>Nature</i> . Vol. 364, pp. 430-433.	
C62	Atala, Anthony, Linda G. Cima, Woosob Kim, Keith T. Paige, Joseph P. Vacanti, Alan B. Retik, and Charles A. Vacanti. August 1993. "Injectable Alginate Seeded with Chondrocytes as a Potential Treatment for Vesicoureteral Reflux." <i>The Journal of Urology</i> . Vol. 150, No. 2, pp. 745-747.	
C63	Ross-Murphy, S. B. and K. P. Shatwell. May-August 1993. "Polysaccharide Strong and Weak Gels." <i>Biorheology</i> . Vol. 30, Nos. 3 & 4, pp. 217-227.	
C64	Margalit, Hanah, Nurit Fischer, and Shmuel A. Ben-Sasson. September 15, 1993. "Comparative Analysis of Structurally Defined Heparin Binding Sequences Reveals a Distinct Spatial Distribution of Basic Residues." <i>The Journal of Biological Chemistry</i> . Vol. 268, No. 26, pp. 19228-19231.	
C65	Fowler, Bruce O., Milesko Marković, and Walter E. Brown. 1993. "Octacalcium Phosphate. 3. Infrared and Raman Vibrational Spectra." <i>Chem. Mater.</i> Vol. 5, No. 10, pp. 1417-1423.	
C66	Fulurhop, Jürgen-Hinrich, Dragan Spiroski, and Christoph Boettcher. 1993. "Molecular Monolayer Rods and Tubules Made of α -(L-Lysine), α -(Amino) Biotinamphiphiles." <i>Journal of the American Chemical Society</i> . Vol. 115, No. 4, pp. 1600-1601.	
C67	Graham, Stephen and Paul W. Brown. 1993. "The Low Temperature Formation of Octacalcium Phosphate." <i>Journal of Crystal Growth</i> . Vol. 132, pp. 215-225.	
C68	Shimizu, Toshiro and Masakatsu Hato. 1993. "Self-Assembling Properties of Synthetic Peptide Lipids." <i>Biochimica et Biophysica Acta</i> . Vol. 1147, pp. 50-58.	
C69	Stupp, Samuel I., Jacqueline A. Hanson, Jo Ann Eurell, Glenn W. Ciegler, and Ann Johnson. 1993.	

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/PTO			Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/668,672
			Filing Date	September 23, 2003
			First Named Inventor	Samuel I. STUPP et al.
			Art Unit	1645
			Examiner Name	Unknown
			Attorney Docket Number	NANO 105 US2 (NU 22074)
Sheet	6	of	21	

		"Organosapites. Materials for Artificial Bone. III. Biological Testing." <i>Journal of Biomedical Materials Research</i> . Vol. 27, pp. 301-311.	
C70	Stupp, Samuel I., George C. Mejciano, and Jacqueline A. Hanson. 1993. "Organosapites. Materials for Artificial Bone. II. Hardening Reactions and Properties." <i>Journal of Biomedical Materials Research</i> . Vol. 27, pp. 289-299.		
C71	Wald, Heidi L., Georgios Sarakinos, Michelle D. Lyman, Antonios G. Mikos, Joseph P. Vacanti, and Robert Langer. 1993. "Cell Seeding in Porous Transplantation Devices." <i>Biomaterials</i> . Vol. 14, No. 4, pp. 270-278.		
C72	Walsh, Dominic, Joanne L. Kingston, Bridget R. Heywood, and Stephen Mann. 1993. "Influence of Monosaccharides and Related Molecules on the Morphology of Hydroxyapatite." <i>Journal of Crystal Growth</i> . Vol. 133, pp. 1-12.		
C73	Wang, B. C., T. M. Lee, E. Chang, and C. Y. Yang. 1993. "The Shear Strength and the Failure Mode of Plasma-Sprayed Hydroxyapatite Coating to Bone: The Effect of Coating Thickness." <i>Journal of Biomedical Materials Research</i> . Vol. 27, pp. 1315-1327.		
C74	San Antonio, James D., Arthur D. Lander, Morris J. Karnovsky, and Henry S. Slayter. June 1994. "Mapping the Heparin-Binding Sites on Type I Collagen Monomers and Fibrils." <i>The Journal of Cell Biology</i> . Vol. 125, No. 5, pp. 1179-1188.		
C75	Ban, S., S. Murano, H. Iwata, and H. Itoh. 1994. "Calcium Phosphate Precipitation on the Surface of HA-G-Ti Composite Under Physiologic Conditions." <i>Journal of Biomedical Materials Research</i> . Vol. 28, pp. 65-71.		
C78	de Bruijn, J. D., Y. P. Bovell, and C. A. van Blitterswijk. 1994. "Structural Arrangements at the Interface Between Plasma Sprayed Calcium Phosphates and Bone." <i>Biomaterials</i> . Vol. 15, No. 7, pp. 543-550.		
C77	Hunter, Graeme K. and Harvey A. Goldberg. 1994. "Modulation of Crystal Formation by Bone Phosphoproteins: Role of Glutamic Acid-Rich Sequences in the Nucleation of Hydroxyapatite by Bone Sialoprotein." <i>Biochem. J.</i> Vol. 302, pp. 175-179.		
C78	Klein, C. P. A. T., J. G. C. Wolke, J. M. A. de Bleeck-Hogervorst, and K. de Groot. 1994. "Calcium Phosphate Plasma-Sprayed Coatings and Their Stability: An <i>In Vivo</i> Study." <i>Journal of Biomedical Materials Research</i> . Vol. 28, pp. 909-917.		
C79	Mikos, Antonios G., Michelle D. Lyman, Lisa E. Freed, and Robert Langer. 1994. "Wetting of Poly(L-Lactic Acid) and Poly(DL-Lactic-co-glycolic Acid) Foams for Tissue Culture." <i>Biomaterials</i> . Vol. 15, No. 1, pp. 55-58.		
C80	Bond, G. M., R. H. Richman, and W. P. McNaughton. June 1995. "Mimicry of Natural Material Designs and Processes." <i>Journal of Materials Engineering and Performance</i> . Vol. 4, No. 3, pp. 334-345.		
C81	Hubbell, Jeffrey A. June 1995. "Biomaterials in Tissue Engineering." <i>Bio/technology</i> . Vol. 13, pp. 565-576.		
C82	Fromm, J. R., R. E. Hileman, E. E. O. Caldwell, J. M. Weiler, and R. J. Linschmidt. November 10, 1995. "Differences in the Interaction of Heparin with Arginine and Lysine and the Importance of these Basic Amino Acids in the Binding of Heparin to Acid Fibroblast Growth Factor." <i>Archives of Biochemistry and Biophysics</i> . Vol. 323, No. 2, pp. 279-287.		
C83	Wakitani, Shigeyuki, Tomoyuki Saito, and Arnold I. Caplan. December 1995. "Myogenic Cells Derived from Rat Bone Marrow Mesenchymal Stem Cells Exposed to 5-Azacytidine." <i>Muscle & Nerve</i> . Vol. 18, pp. 1417-1426.		
C84	Aletras, Alexios, Kleomenis Barlos, Dimitrios Galos, Sophia Koutsogianni, and Petros Mamos. 1995. "Preparation of the Very Acid-Sensitive Fmoc-Lys(Mtt)-OH." <i>International Journal of Peptide & Protein Research</i> . Vol. 45, pp. 488-496.		
C85	Berndt, Peter, Gregg B. Fields, and Matthew Tirrell. 1995. "Synthetic Lipidation of Peptides and Amino Acids: Monolayer Structure and Properties." <i>Journal of the American Chemical Society</i> . Vol. 117, No. 37, pp. 9515-9522.		
C86	Gage, Fred H., Jasodhara Ray, and Lisa J. Fisher. 1995. "Isolation, Characterization, and Use of Stem		

Examiner Signature	Date Considered
--------------------	-----------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Complete if Known	
Application Number	10/668,672			
Filing Date	September 23, 2003			
First Named Inventor	Samuel I. STUPP et al.			
Art Unit	1645			
Examiner Name	Unknown			
Attorney Docket Number	NANO 105 US2 (NU 22074)			

		Cells from the CNS." <i>Annual Review of Neuroscience</i> . Vol. 18, pp. 159-192.	
C87		Nonizu, Motoyoshi, Benjamin S. Weeks, Christi A. Weston, Woo Hoo Kim, Hynda K. Kleinman, and Yoshihiko Yamada. 1995. "Structure-Activity Study of a Lamina II Chain Active Peptide Segment Ile-Lys-Val-Ala-Val (IKVAV)." <i>FEBS Letters</i> . Vol. 365, pp. 227-231.	
C88		Saito, Tomoyuki, James E. Dennis, Donald P. Lanson, Randall G. Young, and Arnold I. Caplan. 1995. "Myogenic Expression of Mesenchymal Stem Cells Within Myotubes of mdx Mice <i>In Vitro</i> and <i>In Vivo</i> ." <i>Tissue Engineering</i> . Vol. 1, No. 4, pp. 327-343.	
C89		Sasazawa, Michio. 1995. "Optical Processes in ZnO." <i>J. Phys. Condens. Matter</i> . Vol. 7, pp. 10029-10036.	
C90		Zhang, Shiguang, Todd C. Holmes, C. Michael DiPersio, Richard O. Hynes, Xing Su, and Alexander Rich. 1995. "Self-Complementary Oligopeptide Matrices Support Mammalian Cell Attachment." <i>Biomaterials</i> . Vol. 16, No. 18, pp. 1385-1393.	
C91		Falini, Giuseppe, Shira Allbeck, Steve Weiner, and Lin Addadi. January 5, 1996. "Control of Aragonite or Calcite Polymorphism by Mollusk Shell Macromolecules." <i>Science</i> . Vol. 271, No. 5245, pp. 67-69.	
C92		Alivisatos, A. P. February 16, 1996. "Semiconductor Clusters, Nanocrystals, and Quantum Dots." <i>Science</i> . Vol. 271, No. 5251, pp. 933-937.	
C93		Key, Bruce A., Lea T. Berleau, Hung V. Nguyen, Helen Chen, Henry Henssah, Richard Vanden, and Napoleone Ferrara. March 29, 1996. "The Carboxyl-terminal Domain (111-165) of Vascular Endothelial Growth Factor is Critical for Its Mitogenic Potency." <i>The Journal of Biological Chemistry</i> . Vol. 271, No. 13, pp. 7788-7795.	
C94		Belcher, A. M., X. H. Wu, R. J. Christensen, P. K. Hansma, G. D. Stucky, and D. E. Morse. May 2, 1996. "Control of Crystal Phase Switching and Orientation by Soluble Mollusc-Shell Proteins." <i>Nature</i> . Vol. 381, pp. 56-58.	
C95		Hortelano, Gonzalo, Aymen Al-Hendy, Frederick A. Ofose, and Patricia L. Chang. June 15, 1996. "Delivery of Human Factor IX in Mice by Encapsulated Recombinant Myoblasts: A Novel Approach Towards Allogeneic Gene Therapy of Hemophilia B." <i>Blood</i> . Vol. 87, No. 12, pp. 5095-5103.	
C96		Sultzhugh, K. J. and T. J. Spenser. July-August 1996. "A Method to Attach Lectins to the Surface of Spermine Alginate Microcapsules Based on the Avidin Biotin Interaction." <i>J. Microencapsulation</i> . Vol. 13, No. 4, pp. 363-375.	
C97		Alivisatos, A. Paul, Kai P. Johnson, Xinogang Peng, Troy E. Wilson, Colin J. Loweth, Marcel P. Burcher Jr., and Peter G. Schultz. August 15, 1996. "Organization of 'Nanocrystal Molecules' Using DNA." <i>Nature</i> . Vol. 382, pp. 609-611.	
C98		George, Anne, Leslie Bannon, Boris Sahay, Jerry W. Dillon, James Malone, Arthur Veis, Nancy A. Jenkins, Delora J. Gilbert, and Neal G. Copeland. December 20, 1996. "The Carboxyl-terminal Domain of Phosphorylase Contains Unique Extended Triplet Amino Acid Repeat Sequences Forming Ordered Carboxyl-Phosphate Interaction Ridges That May Be Essential in the Biomineralization Process." <i>The Journal of Biological Chemistry</i> . Vol. 271, No. 51, pp. 32869-32873.	
C99		Basso, D. Michele, Michael S. Beattie, and Jacqueline C. Bresnahan. 1996. "Graded Histological and Locomotor Outcomes after Spinal Cord Contusion Using the NYU Weight-Drop Device Versus Transection." <i>Experimental Neurology</i> . Vol. 139, pp. 244-256.	
C100		Burkett, Sandra L. and Stephen Mann. 1996. "Spatial Organization and Patterning of Gold Nanoparticles on Self-Assembled Biolipid Tubular Templates." <i>Chem. Commun.</i> Pp. 321-322.	
C101		Hunter, Graeme K., Peter V. Hanschke, A. Robin Poole, Lawrence C. Rosenberg, and Harvey A. Goldberg. 1996. "Nucleation and Inhibition of Hydroxyapatite Formation by Mineralized Tissue Proteins." <i>Biochem. J.</i> Vol. 317, pp. 59-64.	
C102		Karymov, Mikhail A., Karel Procházka, John M. Mendenhall, Thomas J. Martin, Petr Munk, and Stephen E. Webber. 1996. "Chemical Attachment of Polystyrene-block-poly(methacrylic acid) Micelles on a Silicon Nitride Surface." <i>Langmuir</i> . Vol. 12, No. 20, 4748-4753.	
C103		Landis, William J., Karen J. Hodgins, James Arena, Min Ja Song, and Bruce F. McEwen. 1996. "Structural Relations Between Collagen and Mineral in Bone as Determined by High Voltage Electron Microscopic Tomography." <i>Microscopy Research and Technique</i> . Vol. 33, pp. 192-202.	

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/PTO			Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/668,672
			Filing Date	September 23, 2003
			First Named Inventor	Samuel I. STUPP et al.
			Art Unit	1645
			Examiner Name	Unknown
			Attorney Docket Number	NANO 105 US2 (NU 22074)
Sheet	8	of	21	

C104	Matsuzawa, Micko, Forrest F. Weight, Richard S. Potember, and Páivi Lesi. 1996. "Directional Neurite Outgrowth and Axonal Differentiation of Embryonic Hippocampal Neurons Are Promoted by a Neurite Outgrowth Domain of the B2-Chain of Laminin." <i>Int. J. Devl. Neuroscience</i> . Vol. 14, No. 3, pp. 283-295.	
C105	Mooney, David J., Daniel F. Baldwin, Nam P. Suh, Joseph P. Vacanti, and Robert Langer. 1996. "Novel Approach to Fabricate Porous Sponges of Poly(D,L-Lactic-co-glycolic Acid) Without the Use of Organic Solvents." <i>Biomaterials</i> . Vol. 17, No. 14, pp. 1417-1422.	
C106	Ratner, Buddy D., Allen S. Hoffman, Frederick J. Schoen, and Jack E. Lemons, Editors. 1996. <i>Biomaterials Science: An Introduction to Materials in Medicine</i> . San Diego, CA: Academic Press.	
C107	Umana, Abraham. 1996. "Formation and Structure of Self-Assembled Monolayers." <i>Chemical Reviews</i> . Vol. 96, No. 4, pp. 1533-1554.	
C108	Yu, Yung-Ching, Peter Berndt, Matthew Tirrell, and Gregg B. Fields. 1996. "Self-Assembling Amphiphiles for Construction of Protein Molecular Architecture." <i>Journal of the American Chemical Society</i> . Vol. 118, No. 50, pp. 12515-12520.	
C109	Zarif, Leila, Aage Polidori, Bernard Pucci, Tadick Gulik-Krzywicki, André A. Pavia, and Jean G. Riess. 1996. "Effect of Chirality on the Formation of Tubules from Glycolipidic Amphiphiles." <i>Chemistry and Physics of Lipids</i> . Vol. 79, pp. 165-170.	
C110	Aggeli, A., M. Bell, N. Boden, J. N. Keen, P. F. Knowles, T. C. B. McLeish, M. Pikeathly, and S. E. Radford. March 20, 1997. "Responsive Gels Formed by the Spontaneous Self-Assembly of Peptides into Polymeric β -Sheet Tapes." <i>Nature</i> . Vol. 386, pp. 259-262.	
C111	Herr, Andrew B., David M. Ornitz, Ram Sasisekharan, Ganes Venkatesan, and Gabriel Waksanen. June 27, 1997. "Heparin-Induced Self-Association of Fibroblast Growth Factor-2." <i>The Journal of Biological Chemistry</i> . Vol. 272, No. 26, pp. 16382-16389.	
C112	Dummeler, Stefanie and Andreas M. Zeithor. August 1997. "Nitric Oxide and Apoptosis: Another Paradigm for the Double-Edged Role of Nitric Oxide." <i>NITRIC OXIDE: Biology and Chemistry</i> . Vol. 1, No. 4, pp. 275-281.	
C113	Stupp, Samuel I. and Paul V. Braun. August 29, 1997. "Molecular Manipulation of Microstructures: Biomaterials, Ceramics, and Semiconductors." <i>Science</i> . Vol. 277, No. 5330, pp. 1242-1248.	
C114	Kaufmann, P. M., S. Heimerath, B. S. Kim, and D. J. Mooney. September/October 1997. "Highly Porous Polymer Matrices as a Three-Dimensional Culture System for Hepatocytes." <i>Cell Transplantation</i> . Vol. 6, No. 5, pp. 463-468.	
C115	Aggeli, Amalia, Mark Bell, Neville Boden, Jeff N. Keen, Tom C. B. McLeish, Irina Nyrkova, Sheena E. Radford, and Alexander Semenov. 1997. "Engineering of Peptide β -Sheet Nanotapes." <i>J. Mater. Chem.</i> Vol. 7, No. 7, pp. 1135-1145.	
C116	Anderson, James M. and Matthew S. Shive. 1997. "Biodegradation and Biocompatibility of PLA and PLGA Microspheres." <i>Advanced Drug Delivery Reviews</i> . Vol. 28, pp. 5-24.	
C117	Draget, Karl Ingar, Gudmund Stjåk-Bæk, Olav Sandström. 1997. "Alginate Based New Materials." <i>International Journal of Biological Macromolecules</i> . Vol. 21, pp. 47-55.	
C118	El-Ghannam, Ahmed, Paul Ducheyne, and Irving M. Shapiro. 1997. "Porous Bioactive Glass and Hydroxyapatite Ceramic Affect Bone Cell Function <i>In Vitro</i> Along Different Time Lines." <i>Journal of Biomedical Materials Research</i> . Vol. 36, pp. 167-180.	
C119	Jaiswal, Neelam, Stephen E. Haynesworth, Arnold I. Caplan, and Scott P. Bruder. 1997. "Osteogenic Differentiation of Purified, Culture-Expanded Human Mesenchymal Stem Cells <i>In Vitro</i> ." <i>Journal of Cellular Biochemistry</i> . Vol. 64, pp. 295-312.	
C120	Nehrer, Stefan, Howard A. Breinan, Arun Ramappa, Sonya Shuckroff, Gretchen Young, Tom Minas, Clement B. Sledge, Ioannis V. Yannas, and Myron Spector. 1997. "Canine Chondrocytes Seeded in Type I and Type II Collagen Implants Investigated <i>In Vitro</i> ." <i>Journal of Biomedical Materials Research (Appl. Biomater.)</i> . Vol. 38, pp. 95-104.	
C121	Manz, Stephen. 1997. "Biomimeticization: The Formidable Part of Bioinorganic Chemistry!" <i>J. Chem. Soc., Dalton Trans.</i> pp. 3953-3961.	
C122	Norrbj, Klas. 1997. "Angiogenesis: New Aspects Relating to its Initiation and Control." <i>APMIS</i> . Vol.	

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/SPFO			Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/668,672
			Filing Date	September 23, 2003
			First Named Inventor	Samuel I. STUPP et al.
			Art Unit	1645
			Examiner Name	Unknown
			Attorney Docket Number	NANO 105 US2 (NU 22074)
Sheet	9	of	21	

	105, pp. 417-437.	
C123	Shimizu, Toshim, Masaki Kogiso, and Mitsutoshi Masuda. 1997. "Noncovalent Formation of Polyglycine II-Type Structure by Hexagonal Self-Assembly of Linear Polymolecular Chains." <i>Journal of the American Chemical Society</i> . Vol. 119, No. 26, pp. 6209-6210, S2-S17.	
C124	Smith, George P. and Valery A. Petrenko. 1997. "Phage Display." <i>Chemical Reviews</i> . Vol. 97, No. 2, pp. 391-410.	
C125	Toyotama, Akiko, Shin-ichi Kugimiyu, Masakatsu Yonase, Takatoshi Kinoshita, and Yoshiharu Tsujita. 1997. "Controlable Orientation of the Peptide-Based Surfactant at Air-Water Interface." <i>Chemistry Letters</i> . Pp. 443-444.	
C126	Weiner, Stephen and Lea Addadi. 1997. "Design Strategies in Mineralized Biological Materials." <i>J Mater. Chem</i> . Vol. 7, No. 5, pp. 689-702.	
C127	Wellings, Donald A. and Eric Atherton. 1997. "Standard Fmoc Protocols." <i>Methods in Enzymology</i> . Vol. 289, pp. 44-67.	
C128	Wen, H. B., J. G. C. Wolke, J. R. de Wijn, Q. Lu, F. Z. Cui, and K. de Groot. 1997. "Fast Precipitation of Calcium Phosphate Layers on Titanium Induced by Simple Chemical Treatments." <i>Biomaterials</i> . Vol. 18, No. 22, pp. 1471-1478.	
C129	Yu, Ying-Ching, Teika Kakas, Yoav Dori, James B. McCarthy, Matthew Tirrell, and Gregg B. Fields. 1997. "Construction of Biologically Active Protein Molecular Architecture Using Self-Assembling Peptide-Amphiphiles." <i>Methods in Enzymology</i> . Vol. 289, pp. 571-587.	
C130	Zlotomirsky, I. and L. Gal-Or. 1997. "Electrophoretic Deposition of Hydroxyapatite." <i>Journal of Materials Science: Materials in Medicine</i> . Pp. 213-219.	
C131	Veis, Arthur, Kuim Wei, Charles Sfeir, Anne George, and James Malone. January 1998. "Properties of the (DSS), Triplet Repeat Domain of Rat Dentin Phosphophoryn." <i>European Journal of Oral Sciences</i> . Vol. 106 (suppl. 1), pp. 234-238.	
C132	Pincus, David W., Robert R. Goodman, Richard A. R. Fraser, Maiken Nedergaard, and Steven A. Goldman. April 1998. "Neural Stem and Progenitor Cells: A Strategy for Gene Therapy and Brain Repair." <i>Neurosurgery</i> . Vol. 42, No. 4, pp. 858-867.	
C133	Ogiso, M., Y. Yamashita, and T. Matsumoto. June 1998. "The Process of Physical Weakening and Dissolution of the HA-Coated Implant in Bone and Soft Tissue." <i>Journal of Dental Research</i> . Vol. 77, No. 6, pp. 1426-1434.	
C134	Petka, Wendy A., James L. Harden, Kevin P. McGrath, Denis Wirtz, and David A. Tirrell. July 17, 1998. "Reversible Hydrogels from Self-Assembling Artificial Proteins." <i>Science</i> . Vol. 281, No. 5375, pp. 389-392.	
C135	Ogill, Dennis P., Charles Butler, John F. Regan, Mark S. Barlow, I. V. Yannas, and Carolyn C. Compton. August 1998. "Vascularized Collagen-Glycosaminoglycan Matrix Provides a Dermal Substrate and Improves Take of Cultured Epithelial Autografts." <i>Plastic and Reconstructive Surgery</i> . Vol. 102, No. 2, pp. 423-429.	
C136	Yu, Ying-Ching, Matthew Tirrell, and Gregg B. Fields. October 7, 1998. "Minimal Lipidation: Stabilizes Protein-Like Molecular Architecture." <i>Journal of the American Chemical Society</i> . Vol. 120, No. 39, pp. 9979-9987.	
C137	Borkenstegen, M., J.-F. Clémence, H. Sigrist, and P. Aebischer. 1998. "Three-Dimensional Extracellular Matrix Engineering in the Nervous System." <i>Journal of Biomedical Materials Research</i> . Vol. 40, pp. 392-400.	
C138	Brekke, John H. and Jeffrey M. Toth. 1998. "Principles of Tissue Engineering Applied to Programmable Osteogenesis." <i>Journal of Biomedical Materials Research (Appl. Biomater.)</i> . Vol. 43, pp. 380-398.	
C139	Fields, Gregg B., Janelle L. Lauer, Yoav Dori, Pilar Forns, Ying-Ching Yu, and Matthew Tirrell. 1998. "Proteolitic Molecular Architecture: Biomaterial Applications for Inducing Cellular Receptor Binding and Signal Transduction." <i>Biopolymers (Peptide Science)</i> . Vol. 47, pp. 143-151.	
C140	Gu, Keui, Syveron R. Chang, Matt S. Slaven, Brian H. Clarkson, R. Bruce Rutherford, and Helena H. Ritchie. 1998. "Human Dentin Phosphophoryn Nucleotide and Amino Acid Sequence." <i>European</i>	

Examiner Signature	Date Considered
--------------------	-----------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/668,672	
			Filing Date	September 23, 2003	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1645	
			Examiner Name	Unknown	
Sheet	10	of	21	Attorney Docket Number	NANO 105 US2 (NU 22074)

		<i>Journal of Oral Sciences</i> . Vol. 106, pp. 1043-1047.	
C141	Hartgerink, Jeffrey D., Thomas D. Clark, and M. Reza Ghadiri. 1998. "Peptide Nanotubes and Beyond." <i>Chem. Eur. J.</i> Vol. 4, No. 8, pp. 1367-1372.		
C142	Johnston, Brian, Thomas M. Hering, Arnold I. Caplan, Victor M. Goldberg, and Jung U. Yoo. 1998. "In Vitro Chondrogenesis of Bone Marrow-Derived Mesenchymal Progenitor Cells." <i>Experimental Cell Research</i> . Vol. 238, pp. 265-272.		
C143	Kawasaki, M., A. Ohno, I. Ohkubo, H. Komura, Z. K. Tang, P. Yu, G. K. L. Wong, B. P. Zhang, and Y. Segawa. 1998. "Excimer Ultraviolet Laser Emission at Room Temperature from Naturally Made Cavity in ZnO Nanocrystal Thin Films." <i>Materials Science and Engineering</i> . Vol. B56, pp. 239-245.		
C144	Kogiso, Masaki, Satoshi Ohnishi, Kiyoshi Yase, Mitsutoshi Masuda, and Toshiaki Shimizu. 1998. "Dicarboxylic Oligopeptide Bolaamphiphiles: Proton-Triggered Self-Assembly of Microtubes with Loose Solid Surfaces." <i>Langmuir</i> . Vol. 14, No. 18, pp. 4978-4986, S1-S7.		
C145	Kogiso, Masaki, Takeshi Hanada, Kiyoshi Yase, and Toshiaki Shimizu. 1998. "Intralayer Hydrogen-Bond-Directed Self-Assembly of Nano-Fibers from Dicarboxylic Valylvaline Bolaamphiphiles." <i>Chem. Comm.</i> Pp. 1791-1792.		
C146	Li, Pingjun and Paul Ducheyne. 1998. "Quasi-Biological Apatite Film Induced by Titanium in a Stimulated Body Fluid." <i>Journal of Biomedical Materials Research</i> . Vol. 41, pp. 341-348.		
C147	Nanci, A., J. D. Wuest, L. Pern, P. Brunet, V. Sharma, S. Zalzal, and M. D. McKee. 1998. "Chemical Modification of Titanium Surfaces for Covalent Attachment of Biological Molecules." <i>Journal of Biomedical Materials Research</i> . Vol. 40, pp. 324-335.		
C148	Tsui, Y. C., C. Doyle, and T. W. Clyne. 1998. "Plasma Sprayed Hydroxyapatite Coatings on Titanium Substrates Part 2: Optimisation of Coating Properties." <i>Biomaterials</i> . Vol. 19, pp. 2031-2043.		
C149	Weiner, S. and H. D. Wagner. 1998. "The Material Bone: Structure-Mechanical Function Relations." <i>Annu. Rev. Mater. Sci.</i> Vol. 28, pp. 271-298.		
C150	Wen, H. B., J. R. de Wijn, F. Z. Cui, and K. de Groot. 1998. "Preparation of Calcium Phosphate Coatings on Titanium Implant Materials by Simple Chemistry." <i>Journal of Biomedical Materials Research</i> . Vol. 41, pp. 227-236.		
C151	Wheeler, Donna L., David L. Chamberland, John M. Schmitt, David C. Buck, John H. Brekke, Jeffrey O. Hollinger, S.-P. Job, and K.-W. Suh. 1998. "Radiomorphometry and Biomechanical Assessment of Recombinant Human Bone Morphogenetic Protein 2 and Polymer in Rabbit Radius Osteotomy Model." <i>Journal of Biomedical Materials Research (Appl. Biomater.)</i> . Vol. 43, pp. 365-373.		
C152	Wolke, J. G. C., K. de Groot, and J. A. Jansen. 1998. "In Vivo Dissolution Behavior of Various RF Magnetron Sputtered Ca-P Coatings." <i>Journal of Biomedical Materials Research</i> . Vol. 39, pp. 524-530.		
C153	Xiao, Shou-Jun, Marcus Textor, and Nicholas D. Spencer. 1998. "Covalent Attachment of Cell-Adhesive, (Arg-Gly-Asp)-Containing Peptides to Titanium Surfaces." <i>Langmuir</i> . Vol. 14, No. 19, pp. 5507-5516.		
C154	Xu, Guofeng, Nan Yao, Ilhan A. Aksay, and John T. Groves. 1998. "Biomimetic Synthesis of Macroscopic-Scale Calcium Carbonate Thin Films: Evidence for a Multistep Assembly Process." <i>Journal of the American Chemical Society</i> . Vol. 120, No. 46, pp. 11977-11985.		
C155	Yamada, Norihito, Katsuhiko Ariga, Masanobu Naito, Kazuhito Matsubara, and Eriko Koyama. 1998. "Regulation of β -Sheet Structures Within Amyloid-Like β -Sheet Assemblage from Tripeptide Derivatives." <i>Journal of the American Chemical Society</i> . Vol. 120, No. 47, pp. 12192-12199.		
C156	Chusnet, Charles C., D. Wayne Goodman, Michael J. Van Stipdonk, Dina R. Justes, and Emile A. Schuevart. January 1, 1999. "Calcium Phosphate Phase Identification Using XPS and Time-of-Flight Cluster SIMS." <i>Analytical Chemistry</i> . Vol. 71, No. 1, pp. 149-153.		
C157	Zubarev, Eugene R., Martin U. Pralle, Leimung Li, and Samuel I. Stupp. January 22, 1999. "Conversion of Supramolecular Clusters to Macromolecular Objects." <i>Science</i> . Vol. 283, pp. 523-526.		
C158	Won, Yoo-Yoon, H. Ted Davis, and Frank S. Bates. February 12, 1999. "Giant Wormlike Rubber Micelles." <i>Science</i> . Vol. 283, No. 5404, pp. 960-963.		

Examiner Signature	Date Considered
--------------------	-----------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/SPFO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/668,672	
			Filing Date	September 23, 2003	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1645	
			Examiner Name	Unknown	
Sheet	11	of	21	Attorney Docket Number	NANO 105 US2 (NU 22074)

C159	Corral, Choudo J., Annir Siddiqui, Linsun Wu, Catherine L. Farrell, David Lyons, and Thomas A. Muscoe. February 1999. "Vascular Endothelial Growth Factor Is More Important Than Basic Fibroblastic Growth Factor During Ischemic Wound Healing." <i>Arch. Surg.</i> Vol. 134, pp. 200-205
C160	Wheeler, B. C., J. M. Corey, G. J. Brewer, and D. W. Branch. February 1999. "Microcontact Printing for Precise Control of Nerve Cell Growth in Culture." <i>Journal of Biomechanical Engineering</i> Vol. 121, pp. 73-78
C161	Cao, H., Y. G. Zhao, S. T. Ho, E. W. Seelig, Q. H. Wang, and R. P. H. Chang. March 15, 1999. "Random Laser Action in Semiconductor Powder." <i>Physical Review Letters</i> . Vol. 82, No. 11, pp. 2278-2281.
C162	Auzenberg, Joanna, Andrew J. Black, and George M. Whitesides. April 8, 1999. "Control of Crystal Nucleation by Patterned Self-Assembled Monolayers." <i>Nature</i> . Vol. 398, pp. 495-498.
C163	Niklason, L. E., J. Guo, W. M. Abbott, K. K. Hirschi, S. Houser, R. Marini, and R. Langer. April 16, 1999. "Functional Arteries Grown in Vitro." <i>Science</i> . Vol. 284, pp. 489-493
C164	Hahn, Jungseok, and Stephen E. Webber. April 1999. "Modification of Surfaces by Covalent Attachment of Polymer Micelles." <i>Macromolecular Symposia</i> Vol. 139, pp. 39-47.
C165	Liu, Yi, Duckhyun Kim, B. Timothy Himes, Stella Y. Chow, Timothy Schallert, Marion Murray, Alan Tessier, and Itzhak Fischer. June 1, 1999. "Transplants of Fibroblasts Genetically Modified to Express BDNF Promote Regeneration of Adult Rat Spinal Axons and Recovery of Forelimb Function." <i>The Journal of Neuroscience</i> . Vol. 19, No. 11, pp. 4370-4387.
C166	Mehler, Mark F. and John A. Kessler. July 1999. "Progenitor Cell Biology: Implications for Neural Regeneration." <i>Arch. Neurol.</i> Vol. 56, pp. 780-784.
C167	McDonald, John W., Xiao-Zhong Liu, Yun Qu, Su Liu, Shannon K. Mickey, Dorothy Turetsky, David I. Gottlieb, and Dennis W. Choi. December 1999. "Transplanted Embryonic Stem Cells Survive, Differentiate and Promote Recovery in Injured Rat Spinal Cord." <i>Nature Medicine</i> Vol. 5, No. 12, pp. 1410-1412.
C168	Bradt, Jens-Hilmar, Michael Mertig, Angelika Teresiak, and Wolfgang Pompe. 1999. "Biomimetic Mineralization of Collagen by Combined Fibril Assembly and Calcium Phosphate Formation." <i>Chem. Mater.</i> Vol. 11, No. 10, pp. 2694-2701.
C169	Braun, Paul V. and Samuel I. Stupp. 1999. "CdS Mineralization of Hexagonal, Lamellar, and Cubic Lyotropic Liquid Crystals." <i>Materials Research Bulletin</i> Vol. 34, No. 3, pp. 463-469.
C170	Buiker, C. E., I. V. Yamas, C. C. Compton, C. A. Correia, and D. P. Orgill. 1999. "Comparison of Cultured and Uncultured Keratinocytes Seeded into a Collagen-GAG Matrix for Skin Replacements." <i>British Journal of Plastic Surgery</i> Vol. 52, pp. 127-132.
C171	Chai, C. S. and B. Ben-Nissan. 1999. "Bioactive Nanocrystalline Sol-Gel Hydroxyapatite Coatings." <i>Journal of Materials Science: Materials in Medicine</i> Vol. 10, pp. 465-469.
C172	Clark, Thomas D., Keiji Kobayashi, and M. Reza Ghadiri. 1999. "Covalent Capture and Stabilization of Cylindrical β -Sheet Peptide Assemblies." <i>Chem. Eur. J.</i> Vol. 5, No. 2, pp. 782-792.
C173	Cornish, J., K. E. Callon, C. Q.-X. Lin, C. L. Xiao, T. B. Mulvey, G. S. Cooper, and I. R. Reid. 1999. "Trifluoroacetate, a Contaminant in Purified Proteins, Inhibits Proliferation of Osteoblasts and Chondrocytes." <i>Am. J. Physiol. Endocrinol. Metab.</i> Vol. 277, pp. 779-783.
C174	Enoto, Kazumori, Yukio Nagasaki, and Kazumori Kataoka. 1999. "Coating of Surfaces with Stabilized Resective Micelles from Poly(ethylene glycol)-Poly(DL-Lactic Acid) Block Copolymer." <i>Langmuir</i> . Vol. 15, No. 16, pp. 5212-5218.
C175	Fields, Gregg B. 1999. "Induction of Protein-like Molecular Architecture by Self-Assembly Processes." <i>Bioorganic & Medicinal Chemistry</i> Vol. 7, pp. 75-81.
C176	Haynes, Andrew J., Wei-Qun Huang, Jamie Mallik, Dajun Yang, Marc E. Lippman, and Lu-Yuan Li. 1999. "Angiopoietin-1 and Its Receptor Tie-2 Participate in the Regulation of Capillary-like Tube Formation and Survival of Endothelial Cells." <i>Microvascular Research</i> Vol. 58, pp. 224-237.
C177	Hwang, Juha J., Kevin Jaeger, James Hancock, and Samuel I. Stupp. 1999. "Organoplastic Growth on an Orthopedic Alloy Surface." <i>Journal of Biomedical Materials Research</i> Vol. 47, pp. 504-515.
C178	Ignjatović, Nenad, Simonida Tomić, Momčilo Dakić, Miroslav Mijljković, Mileško Plavišić, and Dragan

Examiner Signature	Date Considered
--------------------	-----------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/SPFO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/668,672
				Filing Date	September 23, 2003
				First Named Inventor	Samuel I. STUPP et al.
				Art Unit	1645
				Examiner Name	Unknown
Sheet	12	of	21	Attorney Docket Number	NANO 105 US2 (NU 22074)

	Uskokovic. 1999. "Synthesis and Properties of Hydroxycapatite/Poly-L-Lactide Composite Biomaterials." <i>Biomaterials</i> . Vol. 20, pp. 809-816.	
C179	Lee, Kevin J. and Thomas M. Jessell. 1999. "The Specification of Dorsal Cell Fates in the Vertebrate Central Nervous System." <i>Annual Review of Neuroscience</i> . Vol. 22, pp. 261-294.	
C180	Lee, Kyujin C., Paul A. Carlson, Alex S. Goldstein, Paul Yager, and Michael H. Gelb. 1999. "Protection of a Decapeptide from Proteolytic Cleavage by Lipidation and Self-Assembly into High-Acid-Ratio Microstructures: A Kinetic and Structural Study." <i>Langmuir</i> . Vol. 15, No. 17, pp. 5500-5508.	
C181	Mao, Chuanbin, Hengde Li, Fuzhai Cai, Chuanli Ma, and Qinglin Feig. 1999. "Oriented Growth of Phosphates on Polycrystalline Titanium in a Process Mimicking Biomineralization." <i>Journal of Crystal Growth</i> . Vol. 206, pp. 308-321.	
C182	Miyaji, Fumaki, Hyun-Min Kim, Shinichi Honda, Tadashi Kokubo, and Takashi Nakamura. 1999. "Bone-like Apatite Coating on Organic Polymers: Novel Nucleation Process Using Sodium Silicate Solution." <i>Biomaterials</i> . Vol. 20, pp. 913-919.	
C183	Pakalns, Teika, Kraig L. Haverstick, Gregg B. Fields, James B. McCarthy, Daniel L. Mooradian, and Matthew Tirrell. 1999. "Cellular Recognition of Synthetic Peptide Amphiphiles in Self-Assembled Monolayer Films." <i>Biomaterials</i> . Vol. 20, pp. 2265-2279.	
C184	Pittenger, Mark F., Alastair M. Mackay, Stephen C. Beck, Rama K. Jaiswal, Robin Douglas, Joseph D. Mosca, Mark A. Moorman, Donald W. Simonetti, Stewart Craig, and Daniel R. Marshak. April 2, 1999. "Multilineage Potential of Adult Human Mesenchymal Stem Cells." <i>Science</i> . Vol. 284, pp. 143-147.	
C185	Rezania, Alireza, Robert Johnson, Anthony R. Lefkow, and Kevin E. Healy. 1999. "Bioactivation of Metal Oxide Surfaces. I. Surface Characterization and Cell Response." <i>Langmuir</i> . Vol. 15, No. 20, pp. 6931-6939.	
C186	Rowley, Jon A., Gerard Madhambayan, and David J. Mooney. 1999. "Alginate Hydrogels as Synthetic Extracellular Matrix Materials." <i>Biomaterials</i> . Vol. 20, pp. 45-53.	
C187	Schense, Jason C. and Jeffrey A. Hubbell. 1999. "Cross-Linking Exogenous Bifunctional Peptides into Fibrin Gels with Factor XIIIa." <i>Bioconjugate Chem.</i> Vol. 10, No. 1, pp. 75-81.	
C188	Varma, H. K., Y. Yokogawa, F. F. Espinosa, Y. Kawamoto, K. Nishizawa, F. Nagata, and T. Kameyama. 1999. "In-Vitro Calcium Phosphate Growth over Functionalized Cotton Fibers." <i>Journal of Materials Science: Materials in Medicine</i> . Vol. 10, pp. 395-400.	
C189	Vernon, Robert B. and E. Helene Sage. 1999. "A Novel, Quantitative Model for Study of Endothelial Cell Migration and Sprout Formation Within Three-Dimensional Collagen Matrices." <i>Microvascular Research</i> . Vol. 57, pp. 188-193.	
C190	Wei, M., A. J. Ruys, M. V. Swann, S. H. Kim, B. K. Millhorne, and C. C. Sorrell. 1999. "Interfacial Bond Strength of Electrophoretically Deposited Hydroxyapatite Coatings on Metals." <i>Journal of Materials Science: Materials in Medicine</i> . Vol. 10, pp. 401-409.	
C191	Yu, Ying-Ching, Vikram Roonote, Vladimir A. Darsagan, Kevin H. Mayo, Matthew Tirrell, and Gregg B. Fields. 1999. "Structure and Dynamics of Peptide-Amphiphiles Incorporating Triple-Helical Proteinlike Molecular Architecture." <i>Biochemistry</i> . Vol. 38, No. 5, pp. 1659-1668.	
C192	Hog, N. Laila, Keith J. Cross, and Eric C. Reynolds. February 4, 2000. "Molecular Modelling of a Multiphosphorylated Sequence Motif Bound to Hydroxyapatite Surfaces." <i>Journal of Molecular Modeling</i> . Vol. 6, pp. 35-47.	
C193	Martinez, J. S., G. P. Zhang, P. D. Holt, H.-T. Jung, C. J. Carrano, M. G. Haygood, and Alison Butler. February 18, 2000. "Self-Assembling Amphiphilic Siderophores from Marine Bacteria." <i>Science</i> . Vol. 287, No. 5456, pp. 1245-1247.	
C194	Verrecchio, Angela, Markus W. Germain, Barbara P. Schick, Brian Kang, Thomas Twardowski, and James D. San Antonio. March 17, 2000. "Design of Peptides with High Affinities for Heparin and Endothelial Cell Proteoglycans." <i>The Journal of Biological Chemistry</i> . Vol. 275, No. 11, pp. 7701-7707.	
C195	Cao, H., J. Y. Xu, E. W. Seelig, and R. P. H. Chang. May 22, 2000. "Microlaser Made of Disordered	

Examiner Signature	Date Considered
--------------------	-----------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/SPFO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/668,672	
			Filing Date	September 23, 2003	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1645	
			Examiner Name	Unknown	
Sheet	13	of	21	Attorney Docket Number	NANO 105 US2 (NU 22074)

	Media." <i>Applied Physics Letters</i> . Vol. 76, No. 21, pp. 2997-2999.	
C196	Murier, Jennifer J., Amrita Guba, Jonathan Rowley, Rahul Koka, David Mooney, Joseph Uygon, and Joseph Vacanti. May 2000. "Soft-Tissue Augmentation with Injectable Alginate and Syngeneic Fibroblasts." <i>Plastic and Reconstructive Surgery</i> . Vol. 105, No. 6, pp. 2049-2058.	
C197	Holmes, Todd C., Sonsoles de Lacalle, Xing Su, Guosong Liu, Alexander Rich, and Shuguang Zhang. June 6, 2000. "Extensive Neurite Outgrowth and Active Synapse Formation on Self-Assembling Peptide Scaffolds." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 97, No. 12, pp. 6728-6733.	
C198	Whaley, Sandra R., D. S. English, Evelyn L. Hu, Paul F. Barbara, and Angela M. Belcher. June 8, 2000. "Selection of Peptides with Semiconductor Binding Specificity for Directed Nanocrystal Assembly." <i>Nature</i> . Vol. 405, pp. 665-668.	
C199	Sun, Xian-xia and Chi-chen Wang. July 28, 2000. "The N-Terminal Sequence (Residues 1-65) Is Essential for Dimerization, Activities, and Peptide Binding of <i>Escherichia coli</i> DsbC." <i>The Journal of Biological Chemistry</i> . Vol. 275, No. 30, pp. 22743-22749.	
C200	Hsu, Wei-Cheng, Mark H. Spilker, Ioannis V. Yannas, and Peter A. D. Rubin. August 2000. "Inhibition of Contractile Scarring and Contraction by a Porous Collagen-Glycosaminoglycan Implant." <i>Investigative Ophthalmology & Visual Science</i> . Vol. 41, No. 9, pp. 2404-2411.	
C201	Schlessinger, Joseph, Alexander N. Plotnikov, Omar A. Ibrahim, Anna V. Eliseenkova, Brian K. Yeh, Avner Yayon, Robert J. Linhardt, and Moosa Mohammadi. September 2000. "Crystal Structure of a Ternary FGF-FGFR-Heparin Complex Reveals a Dual Role for Heparin in FGFR Binding and Dimerization." <i>Molecular Cell</i> . Vol. 6, pp. 743-750.	
C202	Sun, Y., J. B. Ketterson, and G. K. L. Wong. October 9, 2000. "Excitonic Gain and Stimulated Ultraviolet Emission in Nanocrystalline Zinc-Oxide Powder." <i>Applied Physics Letters</i> . Vol. 77, No. 15, pp. 2322-2324.	
C203	Schuldiner, Maya, Ofra Yanuka, Joseph Itskovitz-Eldor, Douglas A. Melton, and Nissim Benvenisty. October 10, 2000. "Effects of Eight Growth Factors on the Differentiation of Cells Derived from Human Embryonic Stem Cells." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 97, No. 21, pp. 11307-11312.	
C204	Altman, Michael, Peter Lee, Alexander Rich, and Shuguang Zhang. 2000. "Conformational Behavior of Ionic Self-Complementary Peptides." <i>Protein Science</i> . Vol. 9, pp. 1095-1105.	
C205	Archer, Eric A., Noah T. Goldberg, Vincent Lynch, and Michael J. Krische. 2000. "Nanostructured Polymer Duplexes via the Covalent Casting of 1-Dimensional H-Bonding Motifs: A New Strategy for the Self-Assembly of Macromolecular Precursors." <i>Journal of the American Chemical Society</i> . Vol. 122, No. 20, pp. 5006-5007.	
C206	Ariga, Katsuhiko, Jun-ichi Kikuchi, Masanobu Naito, Emiko Koyama, and Norihiro Yamada. 2000. "Modulated Supramolecular Assemblies Composed of Tripeptide Derivatives: Formation of Micrometer-Scale Rods, Nanometer-Size Needles, and Regular Patterns with Molecular-Level Flatness from the Same Compound." <i>Langmuir</i> . Vol. 16, No. 11, pp. 4929-4939.	
C207	Bonassar, E., W. Traub, A. Veis, and S. Weiner. 2000. "A Transmission Electron Microscope Study Using Vitrified Ice Sections of Predentin: Structural Changes in the Dentin Collagenous Matrix Prior to Mineralization." <i>Journal of Structural Biology</i> . Vol. 132, pp. 212-225.	
C208	Bigs, Adriana, Elisa Bonanni, Silvia Panzavolta, and Norberto Roveri. 2000. "Biomimetic Growth of Hydroxyapatite on Gelatin Films Doped with Sodium Polyacrylate." <i>Biomacromolecules</i> . Vol. 1, No. 4, pp. 752-756.	
C209	Bourel, Line, Olivier Carion, Hélène Gras-Marce, and Oleg Melnyk. 2000. "The Dehydration of Lys(MD) Revisited." <i>Journal of Peptide Science</i> . Vol. 6, pp. 264-270.	
C210	Caglan, Michael R., Peter N. Moore, Shuguang Zhang, Roger D. Kanu, and Douglas A. Lauffenberger. 2000. "Self-Assembly of a β -Sheet Protein Governed by Relief of Electrostatic Repulsion Relative to van der Waals Attraction." <i>Biomacromolecules</i> . Vol. 1, No. 4, pp. 627-631.	
C211	Cardullo, F., M. Crego Calama, B. H. M. Snellink-Ruel, J.-L. Weidmann, A. Bielejewska, R. Fokkens, N. M. M. Nibbeling, P. Timmerman, and D. N. Reinhardt. 2000. "Covalent Capture of Dynamic	

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/668,672	
			Filing Date	September 23, 2003	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1645	
			Examiner Name	Unknown	
Sheet	14	of	21	Attorney Docket Number	NANO 105 US2 (NU 22074)

	Hydrogen-Bonded Assemblies." <i>Chem. Commun.</i> pp. 367-368.	
C212	Chenberlain, L. J., I. V. Yamas, H-P Hsu, G. R. Stachurs, and M. Spector. 2000. "Near-Terminus Axonal Structure and Function Following Rat Sciatic Nerve Regeneration Through a Collagen-GAG Matrix in a Ten-Millimeter Gap." <i>Journal of Neuroscience Research</i> . Vol. 60, pp. 666-677.	
C213	David, Sami A., Satish K. Awasthi, and P. Balaram. 2000. "The Role of Polar and Facial Amphiphilic Character in Determining Lipopolysaccharide-Binding Properties in Synthetic Cationic Peptides." <i>Journal of Endotoxin Research</i> . Vol. 6, No. 3, pp. 249-256.	
C214	Dori, Yoav, Hevazlet Bianco-Peled, Sushil K. Satija, Gregg B. Fields, James B. McCarthy, and Matthew Turell. 2000. "Ligand Accessibility as Means to Control Cell Response to Bioactive Bilayer Membranes." <i>Journal of Biomedical Materials Research</i> . Vol. 50, pp. 75-81.	
C215	Fornis, Pilar, Janelle L. Lauer-Fields, Su Gao, and Gregg B. Fields. 2000. "Induction of Protein-Like Molecular Architecture by Monoalkyl Hydrocarbon Chains." <i>Biopolymers</i> . Vol. 54, pp. 531-546.	
C216	Haseida, Yoshio, Eiji Ohshima, and Makiko Arimura. 2000. "Aggregation Behavior of Synthetic Peptide Lipids with Arginine in Aqueous Solution and Construction of a Vitamin B ₁₂ Artificial Enzyme." <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> . Vol. 169, pp. 143-153.	
C217	Kogiso, Masaki, Yuji Okada, Takeshi Hanada, Kayoshi Yase, and Toshimi Shimizu. 2000. "Self-Assembled Peptide Fibers from Valylvaline Biotin-Amphiphiles by a Parallel β -Sheet Network." <i>Biochimica et Biophysica Acta</i> . Vol. 1475, pp. 346-352.	
C218	Langer, Robert. 2000. "Biomaterials in Drug Delivery and Tissue Engineering: One Laboratory's Experience." <i>Accounts of Chemical Research</i> . Vol. 33, No. 2, pp. 94-101.	
C219	Liu, X. D., M. Skold, T. Umuro, Y. K. Zhu, D. J. Romberger, J. R. Spurzem, and S. L. Reinard. 2000. "Endothelial Cell-Mediated Type I Collagen Gel Contraction Is Regulated by Hemin." <i>J. Lab. Clin. Med.</i> Vol. 136, No. 2, pp. 100-109.	
C220	Lu, Lechen, Susan J. Peter, Michelle D. Lyman, Hui-Lin Lai, Susan M. Leste, Janet A. Tamada, Shiro Uyama, Joseph P. Vacanti, Robert Langer, and Antonios G. Mikos. 2000. "In Vitro and in Vivo Degradation of Porous Poly(DL-Lactic-co-Glycolic Acid) Foams." <i>Biomaterials</i> . Vol. 21, pp. 1837-1845.	
C221	Matsumura, T., R. Hosokawa, K. Okamoto, and Y. Akagawa. 2000. "Diverse Mechanisms of Osteoblast Spreading on Hydroxyapatite and Titanium." <i>Biomaterials</i> . Vol. 21, pp. 1121-1127.	
C222	Ponticello, Michael S., Robert M. Schnagl, Sodha Kadiyala, and Frank P. Barry. 2000. "Gelatin-Based Resorbable Sponge as a Carrier Matrix for Human Mesenchymal Stem Cells in Cartilage Regeneration Therapy." <i>Journal of Biomedical Materials Research</i> . Vol. 52, pp. 246-255.	
C223	Powell, Sharon K., Jayashree Rao, Eva Roque, Motoyoshi Nomizu, Yuchiro Kuratomi, Yoshihiko Yamada, and Hynda K. Kleinman. 2000. "Neural Cell Response to Multiple Novel Sites on Laminin-1." <i>Journal of Neuroscience Research</i> . Vol. 61, pp. 302-312.	
C224	Sakayama-Eibert, Shelly E. and Jeffrey A. Hubbell. 2000. "Controlled Release of Nerve Growth Factor from a Heparin-Containing Fibrin-Based Cell Ingrowth Matrix." <i>Journal of Controlled Release</i> . Vol. 69, pp. 149-158.	
C225	Sakayama-Eibert, Shelly E. and Jeffrey A. Hubbell. 2000. "Development of Fibrin Derivatives for Controlled Release of Heparin-Binding Growth Factors." <i>Journal of Controlled Release</i> . Vol. 65, pp. 389-402.	
C226	Tsioreja, R. K. and A. Mitra. 2000. "Random Laser Action in ZnO." <i>Appl. Phys.</i> Vol. B 71, pp. 181-184.	
C227	Tunggal, Patrick, Neil Smyth, Mats Paulsson, and Mark-Christoph Ott. 2000. "Laminins: Structure and Genetic Regulation." <i>Microscopy Research and Technique</i> . Vol. 51, pp. 214-227.	
C228	do Serró, Ana Paula Valagão Amadeu, Anabela Catarino Fernandes, and Benilde de Jesus Vieira Sarmento. 2000. "Calcium Phosphate Deposition on Titanium Surfaces in the Presence of Fibronectin." <i>Journal of Biomedical Materials Research</i> . Vol. 49, pp. 345-352.	
C229	Yamada, Norihiro and Katsuhiko Arita. 2000. "Formation of β -Sheet Assemblage with a View to Developing an Amyloid Model." <i>Synlett</i> . Vol. 5, pp. 575-586.	
C230	Yang, Lin and Paschalis Alexandridis. 2000. "Physicochemical Aspects of Drug Delivery and Release	

Examiner Signature	Date Considered
--------------------	-----------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/SPPTO			Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/668,672
			Filing Date	September 23, 2003
			First Named Inventor	Samuel I. STUPP et al.
			Art Unit	1645
			Examiner Name	Unknown
			Attorney Docket Number	NANO 105 US2 (NU 22074)
Sheet	15	of	21	

		from Polymer-Based Colloids." <i>Current Opinion in Colloid & Interface Science</i> . Vol. 5, pp. 132-143.
C231	Zhu, G. M. F. Mehler, P. C. Mabie, and J. A. Kessler. 2000. "Developmental Changes in Neural Progenitor Cell Lineage Commitment Do Not Depend on Epidermal Growth Factor Receptor Signaling." <i>Journal of Neuroscience Research</i> . Vol. 59, pp. 312-320.	
C232	Orlic, Donald, Jan Kajstura, Stefano Chimenti, Igor Jakusik, Stacey M. Anderson, Baocheng Li, James Pickel, Ronald McKay, Bernardo Nadal-Ginard, David M. Bodine, Annarosa Leri, and Piero Anversa. April 5, 2001. "Bone Marrow Cells Regenerate Infarcted Myocardium." <i>Nature</i> . Vol. 410, pp. 701-705.	
C233	Vaillat, Bruno, Daniel Villet, and Jean-Jacques Feige. April 2001. "In Vitro Models of Vasculogenesis and Angiogenesis." <i>Laboratory Investigation</i> . Vol. 81, No. 4, pp. 439-452.	
C234	Davis, N. G., J. Teisen, C. Schuh, and D. C. Dunand. May 2001. "Solid-State Foaming of Titanium by Superplastic Expansion of Argon-Filled Pores." <i>J. Mater. Res.</i> Vol. 16, No. 5, pp. 1508-1519.	
C235	Rabechevsky, Alexander G. and George M. Smith. May 2001. "Therapeutic Interventions Following Mammalian Spinal Cord Injury." <i>Arch. Neurol.</i> Vol. 58, pp. 721-726.	
C236	Huang, Michael H., Samuel Mao, Henning Feick, Haoqun Yan, Yiyang Wu, Huanes Kind, Eicke Weber, Richard Russo, and Peidong Yang. June 8, 2001. "Room-Temperature Ultraviolet Nanowire Nanolasers." <i>Science</i> . Vol. 292, pp. 1897-1899.	
C237	Lee, Kuen Yong and David J. Mooney. July 2001. "Hydrogels for Tissue Engineering." <i>Chemical Reviews</i> . Vol. 101, No. 7, pp. 1869-1879.	
C238	Aggeli, A., I. A. Nyrkova, M. Bell, R. Harding, L. Carrick, T. C. B. McLeish, A. N. Semenov, and N. Boden. October 9, 2001. "Hierarchical Self-Assembly of Chiral Rod-Like Molecules as a Model for Peptide β -Sheet Tapes, Ribbons, Fibrils, and Fibers." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 98, No. 21, pp. 11857-11862.	
C239	Richardson, Thomas P., Martin C. Peters, Alessandra B. Emmett, and David J. Mooney. November 2001. "Polymeric System for Dual Growth Factor Delivery." <i>Nature Biotechnology</i> . Vol. 19, pp. 1029-1034.	
C240	Mathew, Mathai and Shozo Takagi. November-December 2001. "Structures of Biological Minerals in Dental Research." <i>Journal of Research of the National Institute of Standards and Technology</i> . Vol. 106, No. 6, pp. 1035-1044.	
C241	Woo, Byung Ho, Betsy F. Fink, Richard Page, Jay A. Schrier, Yeong Woo Jo, Ge Jiang, Michelle DeLuca, Henry C. Vasconez, and Patrick P. DeLuca. December 2001. "Enhancement of Bone Growth by Sustained Delivery of Recombinant Human Bone Morphogenetic Protein-2 in a Polymeric Matrix." <i>Pharmaceutical Research</i> . Vol. 18, No. 12, pp. 1747-1753.	
C242	Baráez, F. P., Layrolle, C. A. Van Bitterswijk, and K. de Groot. 2001. "Biomimetic Coatings on Titanium: A Crystal Growth Study of Octacalcium Phosphate." <i>Journal of Materials Science: Materials in Medicine</i> . Vol. 12, pp. 529-534.	
C243	Bianco-Pedra, Havazlet, Yoav Dori, James Schneider, Li-Pun Sung, Sushil Satija, and Matthew Tirrell. 2001. "Structural Study of Langmuir Monolayers Containing Lipidated Poly(ethylene glycol) and Peptides." <i>Langmuir</i> . Vol. 17, No. 22, pp. 6931-6937.	
C244	Cavalli, M., G. Gnappi, A. Montecero, D. Bersani, P. P. Lottici, S. Kacinich, G. Mattogno, and M. Fim. 2001. "Hydroxy- and Fluorapatite Films on Ti Alloy Substrates: Sol-gel Preparation and Characterization." <i>Journal of Materials Science</i> . Vol. 36, pp. 3253-3260.	
C245	Chang, John C., Gregory J. Brewer, and Bruce C. Wheeler. 2001. "Modulation of Neural Network Activity by Patterned." <i>Biosensors & Bioelectronics</i> . Vol. 16, pp. 527-533.	
C246	Chang, Sophia C. N., Jan A. Rowley, Geoffrey Tobias, Nicholas G. Genes, Amit K. Roy, David J. Mooney, Charles A. Vacanti, and Lawrence J. Bonassar. 2001. "Injection Molding of Chondrocyte/Alginate Constructs in the Shape of Facial Implants." <i>Journal of Biomedical Materials Research</i> . Vol. 55, pp. 503-511.	
C247	Doi, Tomokiyo, Takatoshi Kinoshita, Hiroki Kanaya, Shintaro Washizu, Yoshihara Tsujita, and Hiroaki Yoshimizu. 2001. "Aggregation of Polypeptide-Based Amphiphiles in Water." <i>Polymer Journal</i> . Vol. 33, No. 2, pp. 160-164.	

Examiner Signature	Date Considered
--------------------	-----------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO			Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/668,672
			Filing Date	September 23, 2003
			First Named Inventor	Samuel I. STUPP et al.
			Art Unit	1645
			Examiner Name	Unknown
			Attorney Docket Number	NANO 105 US2 (NU 22074)
Sheet	16	of	21	

C246	Gore, Tushar, Yoon Don, Yesheyahu Talmou, Matthew Tarrell, and Havazelet Bianco-Peled. 2001. "Self-Assembly of Model Collagen Peptide Amphiphiles." <i>Langmuir</i> . Vol. 17, No. 17, pp. 5352-5360.
C249	Hoes, Ronald H. 2001. "Protein Design and Phage Display." <i>Chemical Reviews</i> . Vol. 101, No. 10, pp. 3205-3218.
C250	Huang, Eric J. and Louis F. Reichardt. 2001. "Neurotrophins: Roles in Neuronal Development and Function." <i>Annual Review of Neuroscience</i> . Vol. 24, pp. 677-736.
C251	Kim, L., W. Shain, J. N. Turner, and R. Bizio. 2001. "Axonal Outgrowth of Hippocampal Neurons on Micro-Scale Networks of Polylysine-Conjugated Laminin." <i>Biomaterials</i> . Vol. 22, pp. 1049-1054.
C252	Kikuchi, Masao, Soichiro Itoh, Shinzo Ichinose, Kenichi Shimomura, and Junzo Tanaka. 2001. "Self-Organization Mechanism in a Bone-Like Hydroxyapatite/Collagen Nanocomposite Synthesized in Vitro and Its Biological Reaction in Vivo." <i>Biomaterials</i> . Vol. 22, pp. 1705-1711.
C253	Liu, Yuehan, Pierre Layrolle, Joost de Bruijn, Clemens van Blitterswijk, and Klaas de Groot. 2001. "Biomimetic Coprecipitation of Calcium Phosphate and Bovine Serum Albumin on Titanium Alloy." <i>Journal of Biomedical Materials Research</i> . Vol. 57, pp. 327-335.
C254	Look, D. C. 2001. "Recent Advances in ZnO Materials and Devices." <i>Materials Science and Engineering</i> . Vol. B80, pp. 383-387.
C255	Matsu, Hiroshi, and Gary E. Donnelly, Jr. 2001. "Organization of Peptide Nanotubes into Macroscopic Bundles." <i>Langmuir</i> . Vol. 17, No. 25, pp. 7918-7922.
C256	Neet, K. E. and R. B. Campenot. 2001. "Receptor Binding, Internalization, and Retrograde Transport of Neurotrophic Factors." <i>CMLS, Cell Mol. Life Sci.</i> Vol. 58, pp. 1021-1035.
C257	Otsuka, Hidemori, Yukio Nagasaki, and Kazumori Kataoka. 2001. "Self-Assembly of Poly(ethylene glycol)-based Block Copolymers for Biomedical Applications." <i>Current Opinion in Cell and Tissue Science</i> . Vol. 6, pp. 3-10.
C258	Shimizu, Toshio, Rika Iwaura, Mutsuhiro Masuda, Takeshi Hanada, and Kiyoshi Yase. 2001. "Intermolecular-Interaction-Directed Self-Assembly of Nanofibers from Homo- and Heteroditopic 1,6-Nucleobase Biotamphiphiles." <i>Journal of the American Chemical Society</i> . Vol. 123, No. 25, pp. 5947-5955, S1-S16.
C259	Socrates, George. 2001. <i>Infrared and Raman Characteristic Group Frequencies: Tables and Charts</i> Third Edition. Chichester, England: John Wiley & Sons Ltd.
C260	Spanos, Nikos and Petros G. Koutsoukos. 2001. "Model Studies of the Effect of Orthophospho-L-Serine on Biological Mineralization." <i>Langmuir</i> . Vol. 17, No. 3, pp. 866-872.
C261	Takadama, Hiroaki, Hyun-Min Kim, Tadashi Kokubo, and Takashi Nakamura. 2001. "TEM-EDX Study of Mechanism of Bone-like Apatite Formation on Bioactive Titanium Metal in Simulated Body Fluid." <i>Journal of Biomedical Materials Research</i> . Vol. 57, pp. 441-448.
C262	Taniguchi, Masao, Yasuo Suzuki, Eiko Yamamoto, Atsushi Noguchi, and Yutaka Mizushima. 2001. "Sustained Release of Basic Fibroblast Growth Factor and Angiogenesis in a Novel Covalently Crosslinked Gel of Heparin and Alginate." <i>Journal of Biomedical Materials Research</i> . Vol. 56, pp. 216-221.
C263	Torchilin, Vladimir P. 2001. "Structure and Design of Polymeric Surfactant-Based Drug Delivery Systems." <i>Journal of Controlled Release</i> . Vol. 73, pp. 137-172.
C264	Yeung, C. K., L. Lauer, A. Offenhausser, and W. Knoll. 2001. "Modulation of the Growth and Guidance of Rat Brain Stem Neurons Using Patterned Extracellular Matrix Proteins." <i>Neuroscience Letters</i> . Vol. 301, pp. 147-150.
C265	Zubarev, Eugene R., Martin U. Pralle, Eli D. Sone, and Samuel I. Stupp. 2001. "Self-Assembly of Dendron Rod-coil Molecules into Nanoribbons." <i>Journal of the American Chemical Society</i> . Vol. 123, No. 17, pp. 4105-4106.
C266	Hirsch, Karen K., Lihua Lai, Narasimhaswamy S. Belaguli, David A. Dean, Robert J. Schwartz, and Warren E. Zimmer. February 22, 2002. "Transforming Growth Factor- β Induction of Smooth Muscle Cell Phenotype Requires Transcriptional and Post-transcriptional Control of Serum Response Factor." <i>The Journal of Biological Chemistry</i> . Vol. 277, No. 8, pp. 6287-6295.
C267	Xu, Weiming, Lizhi Lin, and Ian G. Charles. February 2002. "Microencapsulated iNOS-expressing

Examiner Signature	Date Considered
--------------------	-----------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/SPPTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/668,672	
			Filing Date	September 23, 2003	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1645	
			Examiner Name	Unknown	
Sheet	17	of	21	Attorney Docket Number	NANO 105 US2 (NU 22074)

	Cells Cause Tumor Suppression in Mice." <i>The FASEB Journal</i> . Vol. 16, pp. 213-215.	
C268	Zabrov, Eugene R., Martin U. Pralle, Eli D. Sone, and Samuel I. Stupp. February 2002. "Self-Folding of Polymers by Supramolecular Nanoribbons." <i>Advanced Materials</i> . Vol. 14, No. 3, pp. 198-203.	
C269	Teng, Yang D., Erni B. Lavik, Xianhu Qu, Kook I. Park, Jilka Ourednik, David Zurkowski, Robert Langer, and Evan Y. Snyder. March 5, 2002. "Functional Recovery Following Traumatic Spinal Cord Injury Mediated by a Unique Polymer Scaffold Seeded with Neural Stem Cells." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 99, No. 5, pp. 3024-3029.	
C270	Bradbury, Elizabeth J., Lawrence D. F. Moon, Reens J. Popat, Von R. King, Gavin S. Bennett, Preeti N. Patel, James W. Fawcett, and Stephen B. McMahon. April 11, 2002. "Chondroitinase ABC Promotes Functional Recovery After Spinal Cord Injury." <i>Nature</i> . Vol. 416, pp. 636-640.	
C271	Vauthey, Sylvain, Steve Santoso, Haiyan Gong, Nicki Watson, and Shuguang Zhang. April 16, 2002. "Molecular Self-Assembly of Surfactant-like Peptides to Form Nanotubes and Nanovesicles." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 99, No. 8, pp. 5355-5360.	
C272	Nowak, Andrew P., Victor Breedveld, Lisa Pakstis, Bulent Ozbaz, David J. Pae, Darrin Pochan, and Timothy J. Deming. May 23, 2002. "Rapidly Recovering Hydrogel Scaffolds from Self-Assembling Diblock Copolymer Amphiphiles." <i>Nature</i> . Vol. 417, pp. 424-428.	
C273	GrandPré, Tadzia, Xiaoxi Li, and Stephen M. Strittmatter. May 30, 2002. "Nogo-66 Receptor Antagonist Peptide Promotes Axonal Regeneration." <i>Nature</i> . Vol. 417, pp. 547-551.	
C274	Storch, Alexander and Johannes Schwarz. May 2002. "Neural Stem Cells and Neurodegeneration." <i>Current Opinion in Investigational Drugs</i> . Vol. 3, No. 5, pp. 774-781.	
C275	Lendlein, Andreas and Robert Langer. May 31, 2002. "Biodegradable, Elastic Shape-Memory Polymers for Potential Biomedical Applications." <i>Science</i> . Vol. 296, pp. 1673-1676.	
C278	Qiu, Jin, Dongming Cai, Haining Dai, Marietta McAttee, Paul N. Hoffman, Barbara S. Bregman, and Marie T. Filbin. June 13, 2002. "Spinal Axon Regeneration Induced by Elevation of Cyclic AMP." <i>Neuron</i> . Vol. 34, pp. 895-903.	
C277	Catledge, Shane A., Marc D. Fray, Yogesh K. Vohra, William R. Laceyfield, Jack E. Lemons, Shanna Woodward, and Ramakrishna Venugopalan. June-August 2002. "Nanostructured Ceramics for Biomedical Implants." <i>Journal of Nanoscience and Nanotechnology</i> . Vol. 2, No. 3/4, pp. 293-312.	
C278	Alsberg, Eben, Kenneth W. Anderson, Amru Albeiruti, Jon A. Rowley, and David J. Mooney. September 17, 2002. "Engineering Growing Tissues." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 99, No. 19, pp. 12025-12030.	
C279	Kay, Sarina, Anil Thapa, Karen M. Haberstroth, and Thomas J. Webster. October 2002. "Nanostructured Polymer/Nanophase Ceramic Composites Enhance Osteoblast and Chondrocyte Adhesion." <i>Tissue Engineering</i> . Vol. 8, No. 5, pp. 753-761.	
C280	Chung, Hsu, Chester W. Brown, and Martin M. Matzuk. December 2002. "Genetic Analysis of the Mammalian Transforming Growth Factor- β Superfamily." <i>Endocrine Reviews</i> . Vol. 23, No. 6, pp. 787-823.	
C281	Busque, Félix, Stephanie A. Hopkins, and Joseph P. Konopelski. 2002. "Progress Toward a Peptidomimetic of Laminin-Derived Pentapeptide YIGSR: Synthesis of the Unique Tricyclic Core Structure." <i>J. Org. Chem.</i> Vol. 67, No. 17, pp. 6097-6103.	
C282	Camp, Laurence, Annette Behor, and David Hunkeler. 2002. "Improving Cell Encapsulation Through Size Control." <i>J. Biomater. Sci. Polymer Edn.</i> Vol. 13, No. 7, pp. 783-796.	
C283	Caplan, Michael R., Elissa M. Schwartzfarb, Shuguang Zhang, Roger D. Kamm, and Douglas A. Lauffenburger. 2002. "Control of Self-Assembling Oligopeptide Matrix Formation Through Systematic Variation of Amino Acid Sequence." <i>Biomaterials</i> . Vol. 23, pp. 219-227.	
C284	Chen, Zhu Jiang, Yvonne Ughrui, and Joel M. Levine. 2002. "Inhibition of Axon Growth by Oligodendrocyte Precursor Cells." <i>Molecular and Cellular Neuroscience</i> . Vol. 20, pp. 125-139.	
C285	Cornish, Toby, Darren W. Branch, Bruce C. Wheeler, and James T. Campanelli. 2002. "Microcontact Printing: A Versatile Technique for the Study of Synaptic Molecules." <i>Molecular and Cellular Neuroscience</i> . Vol. 20, pp. 140-153.	

Examiner Signature	Date Considered
--------------------	-----------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/SPFO			Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/668,672
			Filing Date	September 23, 2003
			First Named Inventor	Samuel I. STUPP et al.
			Art Unit	1645
			Examiner Name	Unknown
			Attorney Docket Number	NANO 105 US2 (NU 22074)
Sheet	18	of	21	

C286	Costa, Silvia, Thierry Planchenault, Cecile Charrier-Bertrand, Yann Mouchel, Christine Fages, Sharon Juliano, Thierry LeFrançois, Georgia Barlovatz-Melmon, and Marcienne Tardy. 2002. "Astroglial Permissivity for Neuritic Outgrowth in Neuron-Astrocyte Cocultures Depends on Regulation of Laminin Bioavailability." <i>GLIA</i> . Vol. 37, pp. 105-113.	
C287	Garnery, Jean, Sandrine Rémy, Xinguo Zhang, James R. Bellinger, Eleonora Boleswska-Pedyczak, Michael Rauth, and Stuart K. Beilstein. 2002. "A Simple Two-Step Approach for Introducing a Protected Diamine-thiol Chelator During Solid-Phase Assembly of Peptides." <i>Bioconjugate Chem.</i> Vol. 13, No. 3, pp. 679-684.	
C288	Gäthli, Abco, Xavier Daura, Dieter Seebeck, and Wilfried F. van Gunsteren. 2002. "Can One Derive the Conformational Preference of a β -Peptide from Its CD Spectrum?" <i>Journal of the American Chemical Society</i> . Vol. 124, No. 44, pp. 12972-12978.	
C289	Gutwein, Luke G. and Thomas J. Webster. 2002. "Osteoblast and Chondrocyte Proliferation in the Presence of Albumin and Titania Nanoparticles." <i>Journal of Nanoparticle Research</i> . Vol. 4, pp. 231-238.	
C290	Huang, Ning-Ping, Gabur Csucs, Kazumori Emoto, Yukio Nagasaki, Kazumori Kataoka, Marcus Textor, and Nicholas D. Spencer. 2002. "Covalent Attachment of Novel Poly(ethylene glycol)-Poly(D,L-lactic acid) Copolymeric Micelles to TiO ₂ Surfaces." <i>Langmuir</i> . Vol. 18, No. 1, pp. 252-258.	
C291	Issac, Roy and Jean Chmielewski. 2002. "Approaching Exponential Growth with a Self-Replicating Peptide." <i>Journal of the American Chemical Society</i> . Vol. 124, No. 24, pp. 6808-6809.	
C292	Joshi, Mital and Michael G. Fehlings. 2002. "Development and Characterization of a Novel, Graded Model of Clip Compressive Spinal Cord Injury in the Mouse: Part I. Clip Design, Behavioral Outcomes, and Histopathology." <i>Journal of Neurotrauma</i> . Vol. 19, No. 2, pp. 175-190.	
C293	Joshi, Mital and Michael G. Fehlings. 2002. "Development and Characterization of a Novel, Graded Model of Clip Compressive Spinal Cord Injury in the Mouse: Part 2. Quantitative Neuroanatomical Assessment and Analysis of the Relationships Between Axonal Tracts, Residual Tissue, and Locomotor Recovery." <i>Journal of Neurotrauma</i> . Vol. 19, No. 2, pp. 191-203.	
C294	Kruger, Ryan G., Patrick Dostal, and Dewey G. McCafferty. 2002. "An Economical and Preparative Orthogonal Solid Phase Synthesis of Fluorescein and Rhodamine Derivatized Peptides: FRET Substrates for the <i>Staphylococcus aureus</i> Sortase SrtA Transpeptidase Reaction." <i>Chem. Commun.</i> Pp. 2092-2093.	
C295	Lauer, L., A. Vogt, C. K. Yung, W. Knoll, and A. Offenhäuser. 2002. "Electrophysiological Recordings of Patterned Rat Brain Stem Slice Neurons." <i>Biomaterials</i> . Vol. 23, pp. 3123-3130.	
C296	Lavik, Eran, Yang D. Teng, Evan Snyder, and Robert Langer. 2002. "Speeding Neural Stem Cells on Scaffolds of PGA, PLA, and Their Copolymers." <i>Methods in Molecular Biology: Neural Stem Cells: Methods and Protocols</i> . Vol. 198, pp. 89-97.	
C297	Marini, Davide M., Wonmuk Hwang, Douglas A. Lauffenburger, Shunguang Zhang, and Roger D. Kamnits. 2002. "Left-Handed Helical Ribbon Intermediates in the Self-Assembly of a β -Sheet Peptide." <i>Nano Letters</i> . Vol. 2, No. 4, pp. 295-299.	
C298	Okasaki, Mio, Tatsuya Okuda, Akihiro Wada, Toshiya Hirayama, Takuro Nidome, and Haruhiko Aoyagi. 2002. "In Vitro Gene Transfection Using Dendritic Poly(L-lysine)." <i>Bioconjugate Chem.</i> Vol. 13, No. 3, pp. 510-517.	
C299	Okano, Hideyuki. 2002. "Stem Cell Biology of the Central Nervous System." <i>Journal of Neuroscience Research</i> . Vol. 69, pp. 698-707.	
C300	Purmar, Mafra, Charlotta Skogh, Anders Björklund, and Kenneth Campbell. 2002. "Regional Specification of Neurosphere Cultures Derived from Subregions of the Embryonic Telencephalon." <i>Molecular and Cellular Neuroscience</i> . Vol. 21, pp. 645-656.	
C301	Porter, A. E., L. W. Hobbs, V. Benitez-Rosen, and M. Spector. 2002. "The Ultrastructure of the Plasma-Sprayed Hydroxyapatite-bone Interface Predisposing to Bone Bonding." <i>Biomaterials</i> . Vol. 23, pp. 723-733.	
C302	Rowley, Jon A. and David J. Mooney. 2002. "Algal Type and RGD Density Control Myoblast Phenotype." <i>Journal of Biomedical Materials Research</i> . Vol. 60, pp. 217-223.	

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/668,672
		Filing Date	September 23, 2003
		First Named Inventor	Samuel I. STUPP et al.
		Art Unit	1645
		Examiner Name	Unknown
		Attorney Docket Number	NANO 105 US2 (NU 22074)
Sheet	19	of	21

C303	Santoso, Steve S., Sylvain Vauthey, and Shuang Zhang. 2002. "Structures, Function and Applications of Amphiphilic Peptides." <i>Current Opinion in Colloid & Interface Science</i> . Vol. 7, pp. 262-266.	
C304	Thibault, Pierre, Lars Lauer, Wolfgang Knoll, and Andreas Offenbäuser. 2002. "PDMS Device for Patterned Application of Microfluids to Neuronal Cells Arranged by Microcontact Printing." <i>Biosensors & Bioelectronics</i> . Vol. 17, pp. 87-93.	
C305	Tryoen-Tóth, Petra, Dominique Vautier, Youssef Haikel, Jean-Claude Voegel, Pierre Schlaef, Johannes Chhba, and Joëlle Ogier. 2002. "Viability, Adhesion, and Bone Phenotype of Osteoblast-like Cells on Polyelectrolyte Multilayer Films." <i>Journal of Biomedical Materials Research</i> . Vol. 60, pp. 657-667.	
C306	Young, Wise. 2002. "Spinal Cord Contusion Models." <i>Progress in Brain Research</i> . Vol. 137, pp. 231-255.	
C307	Latoff, Matthias P., Franz E. Weber, Hugo G. Schmoeckel, Jason C. Schense, Thomas Kohler, Ralph Müller, and Jeffrey A. Hubbell. May 2003. "Repair of Bone Defects Using Synthetic Mimetics of Collagenous Extracellular Matrices." <i>Nature Biotechnology</i> . Vol. 21, pp. 513-518.	
C308	Shaw, Derek and Molly S. Shoschet. May 2003. "Toward Spinal Cord Injury Repair Strategies: Peptide Surface Modification of Expanded Poly(Tetrafluoroethylene) Fibers for Guided Neurite Outgrowth in Vitro." <i>The Journal of Craniofacial Surgery</i> . Vol. 14, No. 3, pp. 308-316.	
C309	Cheng, Hongwei, Wei Jiang, Frank M. Phillips, Rex C. Hayden, Ying Peng, Lan Zhou, Hui H. Liu, Naili An, Benjamin Breyer, Paulina Vamvakaki, Jan Paul Szatkowski, Joe Yoon Park, and Tong-Chuan He. August 2003. "Osteogenic Activity of the Fourteen Types of Human Bone Morphogenetic Proteins (BMPs)." <i>The Journal of Bone & Joint Surgery</i> . Vol. 85-A, No. 8, pp. 1544-1552, 141.	
C310	Pavlov, Georges, Stephanie Finet, Karine Tatarenko, Evgeniya Korneeva, and Christine Ebel. 2003. "Conformation of Heparin Studied with Macromolecular Hydrodynamic Methods and X-ray Scattering." <i>Eur. Biophys. J.</i> Vol. 32, pp. 437-449.	
C311	Arinzeh, Treana Livingston, Susan J. Peter, Michael P. Archambault, Christian van den Bos, Steve Gordon, Karl Kraus, Alan Smith, and Sudha Kadivala. October 2003. "Allogeneic Mesenchymal Stem Cells Regenerate Bone in a Critical-Sized Canine Segmental Defect." <i>The Journal of Bone & Joint Surgery</i> . Vol. 85-A, No. 10, pp. 1927-1935.	
C312	Zhang, Shuang. October 2003. "Fabrication of Novel Biomaterials Through Molecular Self-Assembly." <i>Nature Biotechnology</i> . Vol. 21, No. 10, pp. 1171-1178.	
C313	Aggeli, Amalia, Mark Bell, Lisa M. Carrick, Colin W. G. Fiskwick, Richard Harding, Peter J. Mawer, Sheena E. Radford, Andrew E. Strong, and Neville Boden. 2003. "pH as a Trigger of Peptide β -Sheet Self-Assembly and Reversible Switching Between Nematic and Isotropic Phases." <i>Journal of the American Chemical Society</i> . Vol. 125, No. 32, pp. 9619-9628.	
C314	Alsinia, Jordi and Fernando Albericio. 2003. "Solid-Phase Synthesis of C-Terminal Modified Peptides." <i>Biopolymers (Peptide Science)</i> . Vol. 71, pp. 454-477.	
C315	Bontlueckel, Tanyant and David J. Mooney. 2003. "Protein-Based Signaling Systems in Tissue Engineering." <i>Current Opinion in Biotechnology</i> . Vol. 14, pp. 559-565.	
C316	Fauza, Dario O. 2003. "Tissue Engineering: Current State of Clinical Application." <i>Current Opinion in Pediatrics</i> . Vol. 15, pp. 267-271.	
C317	Ganes, S. and R. Jayakumar. 2003. "Structural Transitions Involved in a Novel Amyloid-Like β -Sheet Assembly of Tripeptide Derivatives." <i>Biopolymers</i> . Vol. 70, pp. 336-345.	
C318	Ganes, S. S. Prakash, and R. Jayakumar. 2003. "Spectroscopic Investigation on Gel-Forming β -Sheet Assembly of Peptide Derivatives." <i>Biopolymers</i> . Vol. 70, pp. 346-354.	
C319	Gergely, C. S., P. Bae Yosef, R. Govin-Lippman, F. Cussimer, and H. Furedi-Müller. 2003. "The Deposition of Calcium Phosphates Within Polyelectrolyte Multilayer Films." <i>Key Engineering Materials</i> . Vols. 240-242 (Bioceramics), pp. 287-290.	
C320	Gooden-Wood, Nichole L., Jay D. Keasling, and Susan J. Muller. 2003. "Self-Assembly of a Designed Protein Polymer into β -Sheet Fibrils and Responsive Gels." <i>Macromolecules</i> . Vol. 36, No. 8, pp. 2932-2938.	
C321	Ishihara, Masayuki, Kiyohaya Obara, Toshiaki Ishizuka, Masanori Fujita, Masato Sato, Kazumori	

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/SPFO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/668,672
		Filing Date	September 23, 2003
		First Named Inventor	Samuel I. STUPP et al.
		Art Unit	1645
		Examiner Name	Unknown
		Attorney Docket Number	NANO 105 US2 (NU 22074)
Sheet	20	of	21

		Masuko, Yoshio Saito, Hirofumi Yura, Takemi Matsui, Hidemi Hattori, Makoto Kikuchi, and Akira Kurita. 2003. "Controlled Release of Fibroblast Growth Factors and Heparin from Photocrosslinked Chitosan Hydrogels and Subsequent Effect on <i>In Vivo</i> Vascularization." <i>Journal of Biomedical Materials Research</i> . Vol. 64A, pp. 551-559.
C322		Malik, Navdeep B., Joelle L. Lauer-Fields, Darus Juska, and Gregg B. Fields. 2003. "Characterization of Peptide-Amphiphiles Possessing Cellular Activation Sequences." <i>Biomacromolecules</i> . Vol. 4, No. 3, pp. 518-528.
C323		Niece, Krista L., Jeffrey D. Hartgerink, Jack J. M. Donkers, and Samuel I. Stupp. 2003. "Self-Assembly Combining Two Bioactive Peptide-Amphiphile Molecules into Nanofibers by Electrostatic Attraction." <i>Journal of the American Chemical Society</i> . Vol. 125, No. 24, pp. 7146-7147.
C324		Steward, Oswald, Binshi Zheng, and Marc Tessier-Lavigne. 2003. "False Resurrections: Distinguishing Regenerated from Spared Axons in the Injured Central Nervous System." <i>The Journal of Comparative Neurology</i> . Vol. 459, pp. 1-8.
C325		Wu, Sufan, Yoshihisa Suzuki, Yoko Ejiri, Toru Noda, Hongliang Bai, Masaaki Kitada, Kazuya Katoka, Masayoshi Ohia, Hirotochi Chou, and Chizuka Ide. 2003. "Bone Marrow Stromal Cells Enhance Differentiation of Cocultured Neurosphere Cells and Promote Regeneration of Injured Spinal Cord." <i>Journal of Neuroscience Research</i> . Vol. 72, pp. 343-351.
C326		Yamada, Norihito, Tsukasa Komatsu, Hirotsugu Yoshinaga, Kayo Yoshizawa, Susumu Edo, and Masashi Kunitake. 2003. "Self-Supporting Elastic Film without Covalent Linkages as a Hierarchically Integrated β -Sheet Assembly." <i>Angew. Chem. Int. Ed.</i> Vol. 42, pp. 5496-5499.
C327		Zhang, Yan, Hongwei Gu, Zhimou Yang, and Bing Xu. 2003. "Supramolecular Hydrogels Respond to Ligand-Receptor Interaction." <i>Journal of the American Chemical Society</i> . Vol. 125, No. 45, pp. 13680-13681.
C328		Hirano, Yoshiaki and David J. Mooney. January 5, 2004. "Peptide and Protein Presenting Materials for Tissue Engineering." <i>Advanced Materials</i> . Vol. 16, No. 1, pp. 17-25.
C329		Futtkner, Jill R., Julia E. Hermann, Michael J. Woo, Keith E. Tansey, Ngan B. Doan, and Michael V. Sofroniew. March 3, 2004. "Reactive Astrocytes Protect Tissue and Preserve Function after Spinal Cord Injury." <i>The Journal of Neuroscience</i> . Vol. 24, No. 9, pp. 2143-2155.
C330		Cao, Renhua, Anna Enksson, Hajime Kubo, Kan Ahtalo, Yihui Cao, Johan Tjebberg. March 19, 2004. "Comparative Evaluation of FGF-2, VEGF-A, and VEGF-C-Induced Angiogenesis, Lymphangiogenesis, Vascular Fenestrations, and Permeability." <i>Circulation Research</i> . Vol. 94, pp. 664-670.
C331		Nikulina Elena, J. Lille Tidwell, Hai Ning Dai, Barbara S. Bregman, and Marie T. Filbin. June 8, 2004. "The Phosphodiesterase Inhibitor Rolipram Delivered after a Spinal Cord Lesion Promotes Axonal Regeneration and Functional Recovery." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 101, No. 23, pp. 8786-8790.
C332		Pearse, Damien D., Francisco C. Pereira, Alexander E. Marcillo, Margaret L. Bates, Yerko A. Berrocal, Marie T. Filbin, and Mary Bartlett Bunge. June 2004. "cAMP and Schwann Cells Promote Axonal Growth and Functional Recovery After Spinal Cord Injury." <i>Nature Medicine</i> . Vol. 10, No. 6, pp. 610-616.
C333		Lu, Paul, Hong Yang, Leonard L. Jones, Marie T. Filbin, and Mark H. Tuszynski. July 14, 2004. "Combinatorial Therapy with Neurotrophins and cAMP Promotes Axonal Regeneration beyond Sites of Spinal Cord Injury." <i>The Journal of Neuroscience</i> . Vol. 24, No. 28, pp. 6402-6409.
C334		Lee, K. W., J. J. Yoon, J. H. Lee, S. Y. Kim, H. J. Jung, S. J. Kim, J. W. Joh, H. H. Lee, D. S. Lee, and S. K. Lee. 2004. "Sustained Release of Vascular Endothelial Growth Factor From Calcium-Induced Alginate Hydrogels Reinforced by Heparin and Chitosan." <i>Transplantation Proceedings</i> . Vol. 36, pp. 2464-2465.
C335		Matsumura, Sachiko, Shinobu Uemura, and Hisakazu Mihara. 2004. "Fabrication of Nanofibers with Uniform Morphology by Self-Assembly of Designed Peptides." <i>Chem. Eur. J.</i> Vol. 10, pp. 2789-2794.
C336		Sieminski, A. L., R. P. Heibel, and K. J. Gooch. 2004. "The Relative Magnitudes of Endothelial Force Generation and Matrix Stiffness Modulate Capillary Morphogenesis in Vitro." <i>Experimental Cell</i>

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/SPTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>			Complete if Known		
Application Number	10/668,672				
Filing Date	September 23, 2003				
First Named Inventor	Samuel I. STUPP et al.				
Art Unit	1645				
Examiner Name	Unknown				
Attorney Docket Number	NANO 105 US2 (NU 22074)				
Sheet	21	of	21		

		Research Vol. 297, pp. 574-584.	
C337		Vandermeulen, Guido W. M. and Harun-Anton Klok. 2004. "Peptide/Protein Hybrid Materials: Enhanced Control of Structure and Improved Performance through Conjugation of Biological and Synthetic Polymers." <i>Macromolecular Bioscience</i> . Vol. 4, pp. 383-398.	
C338		Sayle, Roger. Printed November 9, 2005. "Physiological Ionization and pKa Prediction" http://www.dynafight.com/meetings/omug00/Sayle/ptapredict.html . Pp. 1-13.	
C339		Bull, Steve R., Mustafa O. Galer, Rafael E. Bras, Thomas J. Meade, and Samuel I. Stupp. 2005. "Self-Assembled Peptide Amphiphile Nanofibers Conjugated to MRI Contrast Agents" <i>Nano Letters</i> . Vol. 5, No. 1, pp. 1-4.	
C340		London, M. "Amino Acid Structures at Physiological pH." Printed June 5, 2006. www.brynmawr.edu/Acads/Chem/minerzsto/amino_acids.htm , amino_acids_2.gif , and amino_acids3.htm .	

*EXAMINER: In full reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
--------------------	--	-----------------	--